

INSERVICE INSPECTION SUMMARY

1st Interval, 2nd Period,
5th Refueling Outage
1-2-05

Completed August 3, 1994

Carolina Power & Light Company
P. O. Box 1551
Raleigh, NC 27602

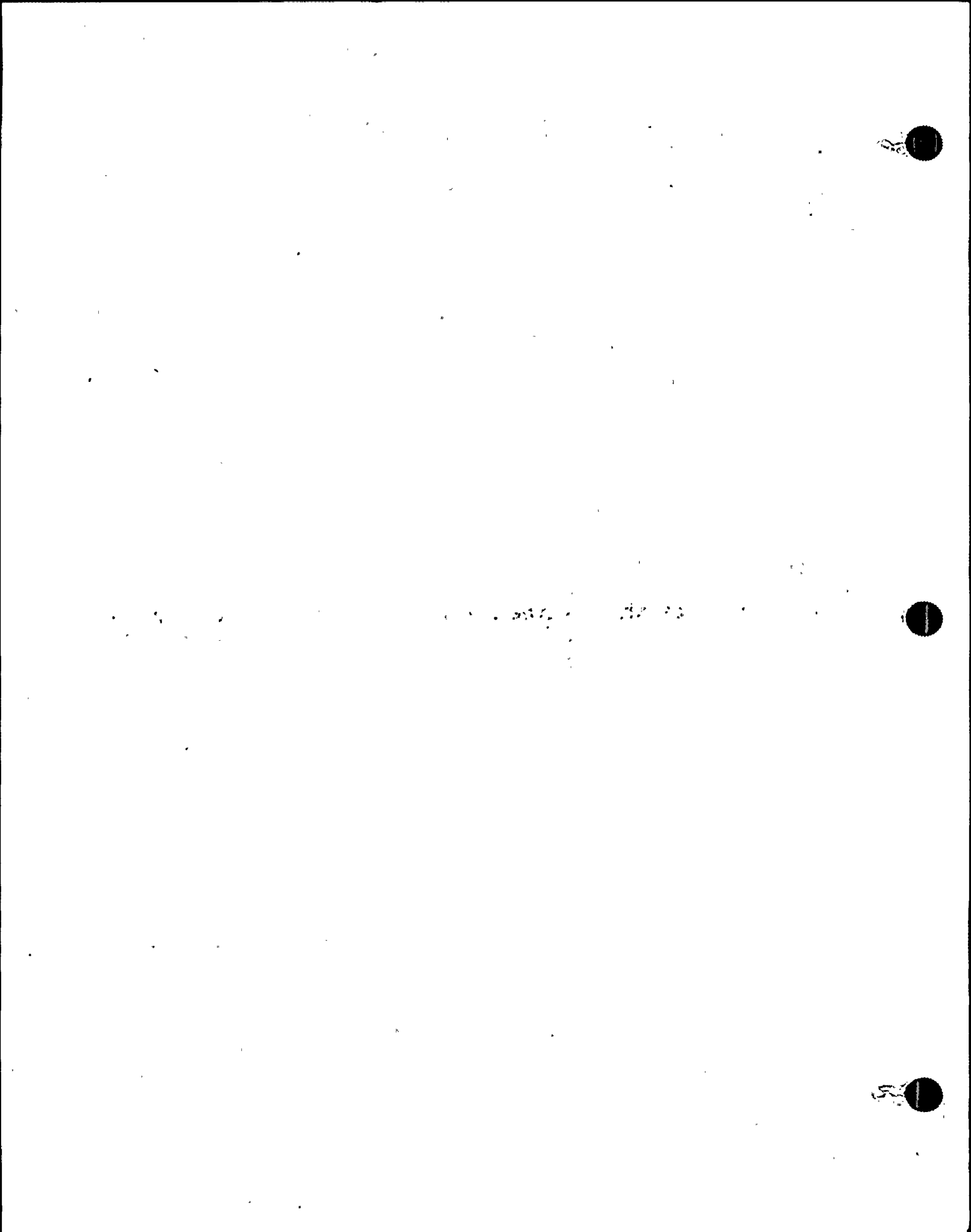
Shearon Harris Nuclear Power Plant - Unit 1
P. O. Box 165
New Hill, NC 27562

Commercial Operation May 2, 1987

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SUMMARY

An Inservice Inspection (ISI) of selected class 1, 2, and 3 components at the Shearon Harris Nuclear Power Plant, Unit One (1), was conducted during Cycle 5 and the March-May RFO5 refueling outage. These examinations constituted the third collection of ISI data in the second inspection period of the first inspection interval.

The components were selected from the Shearon Harris Ten Year Inservice Inspection Plan. Manual examination techniques were utilized. Representative samples of components selected for examination consisted of piping systems and welds.

In addition to the components selected from the Shearon Harris Ten Year Inservice Inspection Plan, 100% baseline examinations were performed on the applicable welds associated with the replacement piping installed in the Auxiliary Feedwater and Feedwater systems.

Industry concern over thermal fatigue cracking in steam generator feedwater nozzle to pipe welds led to the volumetric examination of all three of the welds with this type of configuration. Ultrasonic techniques (45° shear wave and 60° longitudinal) were used to examine the weld required volume and additional base metal areas. No relevant indications were detected.

In response to NRC Bulletin 88-08, ultrasonic examinations were performed on the welds and elbows on selected safety injection lines. The welds and elbows were examined using 45° and 60° shear wave techniques. Examiners performing the UT were qualified in the detection of IGSCC. No relevant indications were detected.

All nondestructive examinations, flaw evaluations, and supporting documentation meet the requirements of ASME Section XI, 1983 Edition up to and including the summer of 1983 Addenda. Manual nondestructive examinations were performed using Magnetic Particle (MT), Liquid Penetrant (PT), Ultrasonic (UT), and Visual (VT) methods.

The following sections listed contain all the pertinent information supporting RFO5 Section XI examinations:

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All examination records contain the following information and are in compliance with IWA-6000 of ASME Section XI:

- Identification of components or areas examined
- NDE method and type
- Examination equipment and materials including serial number
- UT calibration parameters
- Examination date
- Identification of personnel performing examination
- Examination report number
- Examination procedure number and revision
- Examination results

Personnel performing manual nondestructive examinations used CP&L isometrics in conjunction with tagged valves and component supports, points of connection; i.e., vessel and wall/floor penetrations, and floor elevations to locate and identify the examination areas. ISI Isometrics for components examined are listed in the appropriate ISI summaries and applicable drawings are listed in Section 11. Permanent component identification reference points were established and marked on the component in accordance with ASME Section XI, Article III-4000 during PSI.

Calibration standards utilized in the performance of ultrasonic system calibration and examination were supplied by CP&L and the NDE contractors. A list of calibration standards is found in Section 6.

Where component configuration, adjacent part, or physical restriction prevented coverage of the entire required examination volume, the condition was identified and documented on the affected examination record. Section 9 contains a list of relief requests that cover these examinations. All nondestructive examinations, which revealed relevant indications or conditions were identified and documented on the affected examination record. Relevant indications or conditions exceeding the allowable limits specified in the NDE procedures were evaluated in accordance with the provisions set forth in ASME Section XI, IWA-3000.

No indications rejectable to ASME Section XI, IWA-3000 were detected during this outage.

Repair and Replacement activities conducted from the end of the fourth refueling outage through the fifth refueling outage are contained in Section 13. This section consists of Plant Change Request (PCR) or Work Request & Authorization (WR&A) documentation number, description of the activity, and NIS-2 Forms.



EDDY CURRENT EXAMINATION
Carolina Power & Light
Shearon Harris Nuclear Plant
Unit #1

Steam Generators A, B, & C
March - April 1994

Summary of Results

The eddy current inspection was performed in accordance with Westinghouse procedure MRS 2.4.2 GEN-35, Rev. 2. Eddy current was performed in all six channelheads simultaneously, utilizing the Westinghouse ROSA III robotic arms in all CL sides and the HL of S/G C, and the Westinghouse WL-II robotic arms in the remaining two channelheads. The new Westinghouse Dual Probing System was used in the CL's, resulting in data being collected from nine probes simultaneously.

Data was collected and analyzed utilizing the Westinghouse UNIX based ANSER system, and all acquisition systems were networked to analysis through a fiber optic cable enabling the on-line analysis of data. Primary analysis of the data was performed at the Westinghouse Waltz Mill Site near Pittsburgh, PA via T1 telephone transmission, while the secondary analysis, performed by ConAm Nuclear Inc., was performed at the Harris Site. The secondary analysis utilized the Zetec EddyNet system, and was tied to the network via the Westinghouse EddyLink software and system.

The planned eddy current inspection program was made up of three basic parts. The bobbin program consisted of 100% of the total open tubes in each of the steam generators, and was conducted from both the outlet and inlet sides. The remaining planned eddy current was rotating pancake coil (RPC), which was made up of two parts. The first part being a 200 top of tubesheet sample in each of S/G's A & B in the sludge pile region, and secondly the testing of previous indications in the HL's and new indications found this outage in the HL's.

PLANNED EDDY CURRENT INSPECTION PROGRAMS			
	S/G A	S/G B	S/G C
CL BOBBIN, FL - TEH TO TEC	3994	4004	3995
CL BOBBIN, UB - 11H TO TEC	569	570	570
HL BOBBIN, SL - 11H TO TEH	569	570	570
HL RPC, TTS - TSH ± 2	200	200	0
HL RPC, PREVIOUS INDICATIONS	6	7	34

The actual inspection programs and the individual test plans as executed are summarized below.



Bobbin Inspection

To summarize, all tubes on the inspection program for all steam generators were tested to completion.

The actual bobbin test completed, and extents completed are summarized in the table below.

The probe test speed was 24 inches per second at 800 samples per second with test frequencies of 550 KHz, 300 KHz, 100 KHz, and 35 KHz. The bobbin probes used were manufactured by the Echoram Products Group of W NSD, and the primary test probe was a EC-610-BPRMS (0.610 dia). In some cases, a EC-590-BPRMS (0.590 dia) probe was required to traverse the U-bends of low row tubes. In S/G A, a Zetec A-560-BJ/HF (0.560 dia) probe was required to test R38C99 due to large dents at 8TSP on the HL and 9TSP on the CL.

ACTUAL BOBBIN TESTS AND EXTENTS			
	S/G A	S/G B	S/G C
FULL LENGTH CL (TEH TO TEC)	3408	3370	3083
FULL LENGTH CL (TSH TO TEH)		43	3
U-BEND CL (11H TO TEC)	566	370	567
U-BEND CL (10H TO TEC)		1	4
U-BEND CL (9H TO TEC)		1	
U-BEND CL (8H TO TEC)			1
U-BEND CL (7H TO TEC)	1		
U-BEND CL (5H TO TEC)		1	1
U-BEND CL (3H TO TEC)			1
STRAIGHT LENGTH CL (8C TO TEC)	1		
STRAIGHT LENGTH CL (11C TO TEC)		2	
FULL LENGTH (TEC TO TEH)	590	476	920
U-BEND HL (11C TO TEH)	11	3	1
STRAIGHT LENGTH HL (11H TO TEH)	564	569	569
STRAIGHT LENGTH HL (3H TO TEH)		3	
STRAIGHT LENGTH HL (1H TO TEH)		29	
TUBESHEET HL (TSH TO TEH)		0	

Rotating Pancake Coil (RPC) Inspection

The intent of the RPC inspection programs were to detect the presence of axial or circumferential cracking at the top of the tubesheet in S/G's A & B in the sludge pile region, and to re-examine those indications previously reported as 'I' (DRI,DSI,DTI,NQI) indications, dents or dings in all three steam generators.

The actual RPC tests completed, and extents completed are summarized in the table below. All planned tests were completed, plus all new 'I' indications reported this examination.

The probe test speed was 0.2 inches per second, rotating at 300 revolutions per minute, and at 400 samples per second. Test frequencies utilized were 550 KHz, 300 KHz, 200 KHz, and 100 KHz. All tubes were tested with a Zetec Inc. manufactured 3-Coil RPC probe, B-620-MRPC/52/PH (0.620 dia), and in some cases smaller diameter probes had to be used in the tubes having dents.

ACTUAL RPC TESTS AND EXTENTS			
	S/G A	S/G B	S/G C
TOP OF TUBESHEET, HL, TSH \pm 2"	205	209	2
TOP OF TUBESHEET, HL, TSH \pm 3"			23
TOP OF TUBESHEET, HL, TSH \pm 2" -5"			1
SUPPORT PLATE, HL, 11H \pm 2"		4	7
SUPPORT PLATE, HL, 9H \pm 2"			3
SUPPORT PLATE, HL, 8H \pm 2"			2
SUPPORT PLATE, HL, 7H \pm 2"		1	1
SUPPORT PLATE, HL, 3H \pm 2"			3
SUPPORT PLATE, HL, 1H \pm 2"			2
FREE SPAN, HL, 11H THRU 10H	2	2	13
FREE SPAN, HL, 10H THRU 9H	2		1
FREE SPAN, HL, 9H THRU 8H			2
FREE SPAN, HL, 8H THRU 7H	1	1	1
FREE SPAN, HL, 1H THRU TSH		1	1
TUBESHEET, HL, TSH TO TEH	8		
SUPPORT PLATE, CL, 2C \pm 2"		3	
FREE SPAN, CL, 4C THRU 3C		1	

Data Analysis

The primary data analysis was performed by Westinghouse utilizing the W ANSER software, and the secondary data analysis was performed by ConAm utilizing the Zetec EddyNet software. The data analysis was performed on-line with data acquisition through the utilization of a fiber optic network in conjunction with a T1 line linking the primary analysis at the Westinghouse Waltz Mill Facility near Pittsburgh, PA. The W EddyLink software was used to network the data to the secondary analysis being performed on-site. All resolution analysis was performed on-site by Westinghouse, with concurrence needed by ConAm only when addressing any I code (DRI, DSI, DTI, NQI), or percent calls equal to or greater than 40%.



All analyses was performed in accordance with the Harris Site specific Eddy Current Data Analysis Guidelines, EC-GUD-00, Rev 0, and supplemented by the Westinghouse Data Analysis Guidelines, DAT-GYD-001, Rev 6. All Analysts were required to pass both a site specific practical test and a written test prior to performing data analysis.

The planned inspection program was supplemented by RPC testing all I code indications reported from the bobbin tests. Fifty two additional RPC tests of I calls were performed, and none were confirmed to be repairable indications. Therefore, all I calls reported were changed to S codes (DRS, DSS, DTS, NQS) in the data base for tracking purposed in future inspections.

Only three tubes were found to be pluggable, all in steam generator B. Two of these tubes, R49C34 and R47C51 were reported as 50% and 49% through wall indications, respectively. Both indications were located in the cold leg and in free span tubing. The RPC tests on these two indications showed them to be small volumetric pit-like OD indications, and as a result, the bobbin percent calls were left to stand in the data base and the tubes were plugged. The third tube, R12C85 was found by RPC to have multiple axial crack like indications located about 7.5 inches below the hot leg top of tubesheet. This tube was plugged per CP&L decision.

Mechanical Tube Plugging

As a result of the tube degradation found during the eddy current tests, a total of three tubes were plugged this outage as discussed in detail in the Data Analysis section above.

Also, as previously discussed, four tubes in steam generator C were plugged this outage following I600 plug removal.

Tube plugging was performed per Westinghouse procedure MRS 2.3.2 GEN-13, and detail plugging lists, tubesheet maps, and process control sheets and plug logs can be found in Appendix II of this report.

The table below summarizes the tubes plugged this outage.

TUBES PLUGGED THIS OUTAGE			
	TUBESHEET DEGRADATION	FREE-SPAN DEGRADATION	PLUG REPLACEMENT
S/G B	R12C85	R49C34 R47C51	
S/G C			R23C30 R24C30 R23C31 R24C31



SECTION 1

NIS-1 FORMS



FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
As required by the Provisions of the ASME Code Rules

1. Owner Carolina Power & Light Company, Raleigh, N.C.
(Name and Address of Owner)
2. Plant Shearon Harris Nuclear Power Plant, New Hill, N.C.
(Name and Address of Plant)
3. Plant Unit One (1) 4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date 5/2/87 6. National Board Number for Unit 65
7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Pressurizer	Westinghouse	1641	NC212409	W11306
Regenerative Heat Exch.	Joseph Oat Corp.	2168-3BT	NC212438	740
Regenerative Heat Exch.	Joseph Oat Corp.	2168-3BIT	NC212439	741
Regenerative Heat Exch.	Joseph Oat Corp.	2168-3BITT	NC212437	742
Residual Heat Removal Ht. Ex.	Joseph Oat Corp.	2168-1B7	NC203028	953
Residual Heat Removal Ht. Ex.	Joseph Oat Corp.	2168-1B2	NC203029	777
Reactor Vessel	Chicago Bridge & Iron	T40	NC212410	4
Steam Generator A	Westinghouse	1631	NC203043	W11304
Steam Generator B	Westinghouse	1632	NC203044	W11309
Steam Generator C	Westinghouse	1633	NC203045	W11307
Auxiliary Feedwater	CP&L	AF	N/A	49
Blowdown	CP&L	BD	N/A	44
Component Cooling Water	CP&L	CC	N/A	51
Chilled Water Supply	CP&L	CH	N/A	57
Chemical & Volume Control	CP&L	CS	N/A	48
Containment Spray	CP&L	CT	N/A	63

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-1 (Back)

8. Examination Dates 12/2/92 to 5/12/94 9. Inspection Interval from 5/2/87 to 5/1/97
10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. See Summary Sections: 2 & 12
11. Abstract of Conditions Noted See Summary Sections: 2 & 12
12. Abstract of Corrective Measures Recommended and Taken See Summary Sections: 2 & 12

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authorization No. (if applicable) N/A Expiration Date N/A
Date 8/3 1994 Signed CP&L By [Signature]
Owner

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Stm. Blr. Ins. Co. of Hartford, Conn. have inspected the components described in this Owner's Report during the period 12/2/92 to 5/12/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions NC1042
Inspector's Signature National Board, State, Province, and Endorsements
Date Aug 3 1994

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
As required by the Provisions of the ASME Code Rules

1. Owner Carolina Power & Light Company, Raleigh, N.C.
(Name and Address of Owner)
2. Plant Shearon Harris Nuclear Power Plant, New Hill, N.C.
(Name and Address of Plant)
3. Plant Unit One (1) 4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date 5/2/87 6. National Board Number for Unit 65
7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Chilled Water Return	CP&L	CX	N/A	58
Emergency Air	CP&L	EA	N/A	29
Feedwater	CP&L	FW	N/A	54
Jacket Water	CP&L	JW	N/A	36
Main Steam	CP&L	MS	N/A	59
Reactor Coolant	CP&L	RC	N/A	55
Residual Heat Removal	CP&L	RH	N/A	38
Spent Fuel Pool Cool/Cln.	CP&L	SF	N/A	56
Safety Injection	CP&L	SI	N/A	46
Service Water	CP&L	SW	N/A	64

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12. Abstract of Corrective Measures Recommended and Taken See Summary Sections: 2 & 12

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authorization No. (if applicable) N/A Expiration Date N/A
Date 8/3 19 94 Signed CP&L By [Signature]
Owner

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Stm. Bldg. Ins. Co. of Hartford, Conn. have inspected the components described in this Owner's Report during the period 12/2/92 to 5/12/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions NC1042
Inspector's Signature National Board, State, Province, and Endorsements
Date Aug 3 19 94

SECTION 2

POST OUTAGE EXAMINATION RESULTS REPORT



5



Carolina Power & Light Company
 Harris Nuclear Power Plant
 Post Outage Examination Results Report
 Heading Line 1
 Heading Line 2
 Welds

Page: 1
 Date: 08/01/1994
 Revision: 17

Exam Requirement : 83S-01 Outage : 1-2-05
 Interval : 1 Period : 2

Category : B-J PRESSURE RETAINING WELDS IN PIPING
 Item No. : B9.21 CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE < 4 IN.

ISI Drawing	System	Component Number	Component Description	Material A	Material B	Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
II-CS-097	RC	II-CS-097RC-129-1-SW-1	PC, PIPE PC, RED	H376-1	H403-1		5-G-800							
								PT	04/07/1994	PASS	Y			
II-RC-023	RC	II-RC-023RC-SW-D14	PC, RED PC, PIPE	H403-1	H376-1		5-G-801							
								PT	04/01/1994	PASS	Y			

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Exam Requirement : 83S-01 Outage : 1-2-05
 Interval : 1 Period : 2

Category : B-J PRESSURE RETAINING WELDS IN PIPING
 Item No. : B9.40 PIPE SOCKET WELDS

ISI Drawing	System	Component Number	Component Description	Material A	Material B	Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
II-CS-093	CS	II-CS-093CS-482-FW-3074	PC,VLV PC,PIPE	H182-3	H376-1		5-G-803							
II-CS-093	CS	II-CS-093CS-SW-A5	PC,PIPE PSW,T	H376-1	H182-1		5-G-803	PT	04/01/1994	PASS	Y			
II-SI-017	SI	II-SI-017SI-SW-C6	PSW,E PC,PIPE	H182-1	H376-1		5-G-808	PT	04/01/1994	PASS	Y			
								PT	04/06/1994	PASS	Y			



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 Harris Nuclear Power Plant
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Exam Requirement : 83S-01 Outage : 1-2-05
 Interval : 1 Period : 2

Category : B-P ALL PRESSURE RETAINING COMPONENTS
 Item No. : B15.10 RV PRESSURE RETAINING BOUNDARY - OPERATIONAL

ISI Drawing	System	Component Number	Component Description	Material A B	Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI TS	Relief Request	Indication Type	Indication Resolution
II-RV-001	RC	II-RV-001	REACTOR VESSEL VRV			5-G-800	VT-20T	05/09/1994	PASS	Y			



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 Revision: 17

Exam Requirement : 83S-01 Outage : 1-2-05
 Interval : 1 Period : 2

Category : B-P ALL PRESSURE RETAINING COMPONENTS
 Item No. : B15.20 PRZ PRESSURE RETAINING BOUNDARY - OPERATIONAL

ISI Drawing	System	Component Number	Component Description	Material A B	Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
II-PZR-01	RC	II-PZR-01	PRESSURIZER	VPZR	C533-6 C533-6		5-G-801						
							VT-20T	05/09/1994	PASS	Y			

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 Harris Nuclear Power Plant
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Exam Requirement : 83S-01 Outage : 1-2-05
 Interval : 1 Period : 2

Category : B-P ALL PRESSURE RETAINING COMPONENTS
 Item No. : B15.30 SG PRESSURE RETAINING BOUNDARY - OPERATIONAL

ISI Drawing	System	Component Number	Component Description	Material		Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
				A	B									
II-SG-001	RC	II-SG-001	STEAM GEN A	VSGA	C508-1 C533-1		5-G-800							
								VT-20T	05/09/1994	PASS	Y			
II-SG-001	RC	II-SG-001	STEAM GEN B	VSGB	C508-1 C533-1		5-G-800							
								VT-20T	05/09/1994	PASS	Y			
II-SG-001	RC	II-SG-001	STEAM GEN C	VSGC	C508-1 C533-1		5-G-800							
								VT-20T	05/09/1994	PASS	Y			

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Exam Requirement : 83S-01 Outage : 1-2-05
 Interval : 1 Period : 2

Category : B-P ALL PRESSURE RETAINING COMPONENTS
 Item No. : B15.50 PIPING PRESSURE RETAINING BOUNDARY - OPERATIONAL

ISI Drawing	System	Component Number	Component Description	Material		Cal Standard	Boundary Drawing	Exam		Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
				A	B			Type	Exam Date					
II-RC-008	RC	II-RC-008	PRESSURE TEST	PRESSUR	TEST			VT-20P	05/09/1994	PASS	Y			
II-RC-009	RC	II-RC-009	PRESSURE TEST	PRESSUR	TEST			VT-20P	05/09/1994	PASS	Y			
II-RC-010	RC	II-RC-010	PRESSURE TEST	PRESSUR	TEST			VT-20P	05/09/1994	PASS	Y			
II-RC-011	RC	II-RC-011	PRESSURE TEST	PRESSUR	TEST			VT-20P	05/09/1994	PASS	Y			
II-RC-017	RC	II-RC-017	PRESSURE TEST	PRESSUR	TEST			VT-20P	05/09/1994	PASS	Y			
II-RC-022	RC	II-RC-022	PRESSURE TEST	PRESSUR	TEST			VT-20P	05/09/1994	PASS	Y			
II-RC-023	RC	II-RC-023	PRESSURE TEST	PRESSUR	TEST			VT-20P	05/09/1994	PASS	Y			
II-RC-024	RC	II-RC-024	PRESSURE TEST	PRESSUR	TEST			VT-20P	05/09/1994	PASS	Y			
II-RC-025	RC	II-RC-025	PRESSURE TEST	PRESSUR	TEST			VT-20P	05/09/1994	PASS	Y			
II-RC-027	RC	II-RC-027	PRESSURE TEST	PRESSUR	TEST			VT-20P	05/09/1994	PASS	Y			
II-RH-009	RH	II-RH-009	PRESSURE TEST	PRESSUR	TEST			VT-20P	05/09/1994	PASS	Y			
II-RH-010	RH	II-RH-010	PRESSURE TEST	PRESSUR	TEST			VT-20P	05/09/1994	PASS	Y			

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Exam Requirement : 83S-01 Outage : 1-2-05
 Interval : 1 Period : 2

Category : B-P ALL PRESSURE RETAINING COMPONENTS
 Item No. : B15.50 PIPING PRESSURE RETAINING BOUNDARY - OPERATIONAL

ISI Drawing	System	Component Number	Component Description	Material		Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution	
				A	B										
II-RH-010	RH	II-RH-010	PRESSURE TEST	PRESSUR	TEST										
								VT-20P	05/09/1994	PASS	Y				
II-SI-016	SI	II-SI-016	PRESSURE TEST	PRESSUR	TEST										
								VT-20P	05/09/1994	PASS	Y				
II-SI-017	SI	II-SI-017	PRESSURE TEST	PRESSUR	TEST										
								VT-20P	05/09/1994	PASS	Y				
II-SI-018	SI	II-SI-018	PRESSURE TEST	PRESSUR	TEST										
								VT-20P	05/09/1994	PASS	Y				
II-SI-019	SI	II-SI-019	PRESSURE TEST	PRESSUR	TEST										
								VT-20P	05/09/1994	PASS	Y				
II-SI-020	SI	II-SI-020	PRESSURE TEST	PRESSUR	TEST										
								VT-20P	05/09/1994	PASS	Y				
II-SI-021	SI	II-SI-021	PRESSURE TEST	PRESSUR	TEST										
								VT-20P	05/06/1994	PASS	Y				
II-SI-022	SI	II-SI-022	PRESSURE TEST	PRESSUR	TEST										
								VT-20P	05/09/1994	PASS	Y				
II-SI-023	SI	II-SI-023	PRESSURE TEST	PRESSUR	TEST										
								VT-20P	05/09/1994	PASS	Y				
II-SI-024	SI	II-SI-024	PRESSURE TEST	PRESSUR	TEST										
								VT-20P	05/09/1994	PASS	Y				
II-SI-025	SI	II-SI-025	PRESSURE TEST	PRESSUR	TEST										
								VT-20P	05/09/1994	PASS	Y				
II-SI-026	SI	II-SI-026	PRESSURE TEST	PRESSUR	TEST										
								VT-20P	05/09/1994	PASS	Y				



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Category : B-P ALL PRESSURE RETAINING COMPONENTS
 Item No. : B15.50 PIPING PRESSURE RETAINING BOUNDARY - OPERATIONAL

ISI Drawing	System	Component Number	Component Description	Material		Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
				A	B									
II-SI-026	SI	II-SI-026	PRESSURE TEST	PRESSUR	TEST									
								VT-20P	05/09/1994	PASS	Y			
II-SI-027	SI	II-SI-027	PRESSURE TEST	PRESSUR	TEST									
								VT-20P	05/09/1994	PASS	Y			
II-SI-028	SI	II-SI-028	PRESSURE TEST	PRESSUR	TEST									
								VT-20P	05/09/1994	PASS	Y			
II-SI-029	SI	II-SI-029	PRESSURE TEST	PRESSUR	TEST									
								VT-20P	05/09/1994	PASS	Y			
II-SI-030	SI	II-SI-030	PRESSURE TEST	PRESSUR	TEST									
								VT-20P	05/09/1994	PASS	Y			
II-SI-032	SI	II-SI-032	PRESSURE TEST	PRESSUR	TEST									
								VT-20P	05/09/1994	PASS	Y			

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Category : B-P ALL PRESSURE RETAINING COMPONENTS
 Item No. : B15.70 VALVE PRESSURE RETAINING BOUNDARY - OPERATIONAL

ISI Drawing	System	Component Number	Component Description	Material A B	Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
II-RC-008	RC	II-RC-008	PRESSURE TEST										
							VT-20V	05/09/1994	PASS	Y			
II-RC-009	RC	II-RC-009	PRESSURE TEST										
							VT-20V	05/09/1994	PASS	Y			
II-RC-010	RC	II-RC-010	PRESSURE TEST										
							VT-20V	05/09/1994	PASS	Y			
II-RC-011	RC	II-RC-011	PRESSURE TEST										
							VT-20V	05/09/1994	PASS	Y			
II-RC-017	RC	II-RC-017	PRESSURE TEST										
							VT-20V	05/09/1994	PASS	Y			
II-RC-022	RC	II-RC-022	PRESSURE TEST										
							VT-20V	05/09/1994	PASS	Y			
II-RC-023	RC	II-RC-023	PRESSURE TEST										
							VT-20V	05/09/1994	PASS	Y			
II-RC-024	RC	II-RC-024	PRESSURE TEST										
							VT-20V	05/09/1994	PASS	Y			
II-RC-025	RC	II-RC-025	PRESSURE TEST										
							VT-20V	05/09/1994	PASS	Y			
II-RC-027	RC	II-RC-027	PRESSURE TEST										
							VT-20V	05/09/1994	PASS	Y			
II-RH-009	RH	II-RH-009	PRESSURE TEST										
							VT-20V	05/09/1994	PASS	Y			
II-RH-010	RH	II-RH-010	PRESSURE TEST										
							VT-20V	05/09/1994	PASS	Y			

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Category : B-P ALL PRESSURE RETAINING COMPONENTS
 Item No. : B15.70 VALVE PRESSURE RETAINING BOUNDARY - OPERATIONAL

ISI Drawing	System	Component Number	Component Description	Material		Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
				A	B									
II-RH-010	RH	II-RH-010	PRESSURE TEST	PRESSUR	TEST									
								VT-20V	05/09/1994	PASS	Y			
II-SI-016	SI	II-SI-016	PRESSURE TEST	PRESSUR	TEST									
								VT-20V	05/09/1994	PASS	Y			
II-SI-017	SI	II-SI-017	PRESSURE TEST	PRESSUR	TEST									
								VT-20V	05/09/1994	PASS	Y			
II-SI-018	SI	II-SI-018	PRESSURE TEST	PRESSUR	TEST									
								VT-20V	05/09/1994	PASS	Y			
II-SI-019	SI	II-SI-019	PRESSURE TEST	PRESSUR	TEST									
								VT-20V	05/09/1994	PASS	Y			
II-SI-020	SI	II-SI-020	PRESSURE TEST	PRESSUR	TEST									
								VT-20V	05/09/1994	PASS	Y			
II-SI-021	SI	II-SI-021	PRESSURE TEST	PRESSUR	TEST									
								VT-20V	05/06/1994	PASS	Y			
II-SI-022	SI	II-SI-022	PRESSURE TEST	PRESSUR	TEST									
								VT-20V	05/09/1994	PASS	Y			
II-SI-023	SI	II-SI-023	PRESSURE TEST	PRESSUR	TEST									
								VT-20V	05/09/1994	PASS	Y			
II-SI-024	SI	II-SI-024	PRESSURE TEST	PRESSUR	TEST									
								VT-20V	05/09/1994	PASS	Y			
II-SI-025	SI	II-SI-025	PRESSURE TEST	PRESSUR	TEST									
								VT-20V	05/09/1994	PASS	Y			
II-SI-026	SI	II-SI-026	PRESSURE TEST	PRESSUR	TEST									
								VT-20V	05/09/1994	PASS	Y			



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Category : B-P ALL PRESSURE RETAINING COMPONENTS
 Item No. : B15.70 VALVE PRESSURE RETAINING BOUNDARY - OPERATIONAL

ISI Drawing	System	Component Number	Component Description	Material		Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
				A	B									
II-SI-026	SI	II-SI-026	PRESSURE TEST	PRESSUR	TEST									
								VT-20V	05/09/1994	PASS	Y			
II-SI-027	SI	II-SI-027	PRESSURE TEST	PRESSUR	TEST									
								VT-20V	05/09/1994	PASS	Y			
II-SI-028	SI	II-SI-028	PRESSURE TEST	PRESSUR	TEST									
								VT-20V	05/09/1994	PASS	Y			
II-SI-029	SI	II-SI-029	PRESSURE TEST	PRESSUR	TEST									
								VT-20V	05/09/1994	PASS	Y			
II-SI-030	SI	II-SI-030	PRESSURE TEST	PRESSUR	TEST									
								VT-20V	05/09/1994	PASS	Y			
II-SI-032	SI	II-SI-032	PRESSURE TEST	PRESSUR	TEST									
								VT-20V	05/09/1994	PASS	Y			

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Exam Requirement : 83S-01 Outage : 1-2-05
 Interval : 1 Period : 2

Category : C-P PRESSURE RETAINING WELDS IN PIPING
 Item No. : CS.11 PIPING CIRCUMFERENTIAL WELD <= 1/2" NOMINAL WALL THICKNESS

ISI Drawing	System	Component Number	Component Description	Material A	Material B	Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
II-CS-001	CS	II-CS-001CS-128-2-SW-1	PBCC,T PC,PIPE	H403-1	H376-1		5-G-805							
II-CS-001	CS	II-CS-001CS-128-2-SW-2	PC,PIPE PC,PIPE	H376-1	H376-1		5-G-805	PT	03/15/1994	PASS	Y			
II-CS-001	CS	II-CS-001CS-128-3-SW-1	PE,SR PC,PIPE	H403-1	H376-1		5-G-805	PT	03/15/1994	PASS	Y			
II-CS-001	CS	II-CS-001CS-128-FW-158	PC,PIPE PC,VLV	H376-1	H182-1		5-G-805	PT	03/15/1994	PASS	Y			
II-CS-001	CS	II-CS-001CS-128-FW-159	PC,VLV PC,PIPE	H182-1	H376-1		5-G-805	PT	03/15/1994	PASS	Y			
II-CS-001	CS	II-CS-001CS-FW-195	PC,PIPE PC,VLV	H312-1	H182-3		5-G-805	PT	03/15/1994	PASS	Y			
II-CS-001	CS	II-CS-001CS-FW-196	PC,VLV PC,PIPE	H182-3	H312-1		5-G-805	PT	03/15/1994	PASS	Y			
II-CS-001	CS	II-CS-001CS-FW-218	PC,PIPE PC,VLV	H312-1	H182-1		5-G-805	PT	03/15/1994	PASS	Y			
II-CS-001	CS	II-CS-001CS-FW-219	PC,VLV PC,PIPE	H182-1	H312-1		5-G-805	PT	03/29/1994	PASS	Y			
II-CS-001	CS	II-CS-001CS-SW-C4	PE,LR PC,PIPE	H403-1	H376-1		5-G-805	PT	03/15/1994	PASS	Y			
II-CS-001	CS	II-CS-001CS-SW-C5	PC,PIPE PE,LR	H376-1	H403-1		5-G-805	PT	03/15/1994	PASS	Y			
II-CS-002	CS	II-CS-002CS-SW-I3	PC,PIPE PE,LR	H312-1	H403-1		5-G-805	PT	03/15/1994	PASS	Y			

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Interval : 1 Period : 2

Category : C-F PRESSURE RETAINING WELDS IN PIPING
Item No. : C5.11 PIPING CIRCUMFERENTIAL WELD <= 1/2" NOMINAL WALL THICKNESS

ISI Drawing	System	Component Number	Component Description	Material A	Material B	Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
II-CS-002	CS	II-CS-002CS-SW-I3	PC,PIPE PE,LR	H312-1	H403-1		5-G-805							
II-CS-002	CS	II-CS-002CS-SW-I4	PE,LR PC,PIPE	H403-1	H312-1		5-G-805	PT	03/14/1994	PASS	Y			
II-CS-021	CS	II-CS-021CS-FW-107	PC,PIPE PC,VLV	H312-1	H182-3		5-G-805	PT	03/14/1994	PASS	Y			
II-CS-021	CS	II-CS-021CS-FW-108	PC,VLV PC,PIPE	H182-3	H312-1		5-G-805	PT	04/03/1994	PASS	Y			
II-CS-021	CS	II-CS-021CS-FW-209	PC,PIPE PC,VLV	H312-1	H182-3		5-G-805	PT	04/03/1994	PASS	Y			
II-CS-021	CS	II-CS-021CS-FW-210	PC,VLV PC,PIPE	H182-3	H312-1		5-G-805	PT	03/28/1994	PASS	Y			
II-CS-021	CS	II-CS-021CS-FW-220	PC,PIPE PC,PIPE	H312-1	H312-1		5-G-805	PT	03/28/1994	PASS	Y			
II-CS-021	CS	II-CS-021CS-SW-C4	PE,LR PC,PIPE	H403-1	H312-1		5-G-805	PT	04/08/1994	PASS	Y			
II-CS-021	CS	II-CS-021CS-SW-C5	PC,PIPE PE,LR	H312-1	H403-1		5-G-805	PT	03/28/1994	PASS	Y			
II-CS-021	CS	II-CS-021CS-SW-D3	PC,PIPE PBCC,T	H312-1	H403-1		5-G-805	PT	03/28/1994	PASS	Y			
II-CS-021	CS	II-CS-021CS-SW-D4	PBCC,T PC,PIPE	H403-1	H312-1		5-G-805	PT	03/29/1994	PASS	Y			
II-CS-021	CS	II-CS-021CS-SW-D5	PC,PIPE PBCC,T	H312-1	H403-1		5-G-805	PT	03/28/1994	PASS	Y			

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Category : C-F PRESSURE RETAINING WELDS IN PIPING
Item No. : C5.11 PIPING CIRCUMFERENTIAL WELD <= 1/2" NOMINAL WALL THICKNESS

ISI Drawing	System	Component Number	Component Description	Material A	Material B	Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
II-CS-021	CS	II-CS-021CS-SW-D5	PC,PIPE PBCC,T	H312-1	H403-1		5-G-805							
II-CS-021	CS	II-CS-021CS-SW-K8	PE,LR PC,PIPE	H403-1	H312-1		5-G-805	PT	03/28/1994	PASS	Y			
II-CS-021	CS	II-CS-021CS-SW-K9	PC,PIPE PE,LR	H312-1	H403-1		5-G-805	PT	03/29/1994	PASS	Y			
II-CS-021	CS	II-CS-021CS-SW-M3	PC,PIPE PC,PIPE	H312-1	H312-1		5-G-805	PT	03/29/1994	PASS	Y			
II-CT-001	CT	II-CT-001CT-6-3-SW-1	PC,PIPE PC,PIPE	H376-1	H376-1		5-G-050	PT	03/28/1994	PASS	Y			
II-CT-001	CT	II-CT-001CT-FW-8	PC,PIPE PC,VLV	H376-1	H351-3		5-G-050	PT	03/16/1994	PASS	Y			
II-CT-001	CT	II-CT-001CT-SW-C4	PC,PIPE PBCC,TR	H312-1	H403-1		5-G-050	PT	04/02/1994	PASS	Y			
II-CT-001	CT	II-CT-001CT-SW-C5	PBCC,TR PC,PIPE	H403-1	H312-1		5-G-050	PT	04/04/1994	PASS	Y			
II-CT-001	CT	II-CT-001CT-SW-D3	PE,LR PC,PIPE	H403-1	H312-1		5-G-050	PT	04/04/1994	PASS	Y			
II-CT-001	CT	II-CT-001CT-SW-E4	PC,PIPE PC,PIPE	H376-1	H376-1		5-G-050	PT	03/14/1994	PASS	Y			
II-CT-001	CT	II-CT-001CT-SW-G3	PE,LR PC,PIPE	H403-1	H376-1		5-G-050	PT	04/02/1994	PASS	Y			
II-CT-002	CT	II-CT-002CT-FW-20	PC,VLV PC,PIPE	H351-3	H358-1		5-G-050	PT	04/02/1994	PASS	Y			



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Item No. : C5.11 PIPING CIRCUMFERENTIAL WELD <= 1/2" NOMINAL WALL THICKNESS

ISI Drawing	System	Component Number	Component Description	Material A	Material B	Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
II-CT-002	CT	II-CT-002CT-FW-20	PC,VLV PC,PIPE	H351-3	H358-1		5-G-050	PT	03/22/1994	PASS	Y			
II-CT-002	CT	II-CT-002CT-FW-21	PC,PIPE PP,FHS	H358-1	H312-1		5-G-050	PT	03/22/1994	PASS	Y			
II-MS-002	MS	II-MS-002MS-FW-691	PC,VLV PC,PIPE	C216-1	C106-2		5-G-042	MT	04/03/1994	PASS	Y			
II-MS-002	MS	II-MS-002MS-FW-692	PC,PIPE PC,VLV	C106-2	C216-1		5-G-042	PT	03/31/1994	PASS	Y			
II-CS-002	RH	II-CS-002RH-SW-A12	PC,PIPE PE,LR	H312-1	H403-1		5-G-824	PT	03/14/1994	PASS	Y			
II-CS-002	RH	II-CS-002RH-SW-A7	PC,RED PC,PIPE	H403-1	H312-1		5-G-824	PT	03/14/1994	PASS	Y			
II-CS-002	RH	II-CS-002RH-SW-A8	PC,PIPE PBCC,T	H312-1	H403-1		5-G-824	PT	03/14/1994	PASS	Y			
II-CS-002	RH	II-CS-002RH-SW-A9	PE,LR PC,PIPE	H403-1	H312-1		5-G-824	PT	03/14/1994	PASS	Y			
II-CS-002	RH	II-CS-002RH-SW-B4	PF,RFWN PC,PIPE	H182-3	H312-1		5-G-824	PT	03/14/1994	PASS	Y			
II-CS-002	RH	II-CS-002RH-SW-C10	PC,PIPE PE,LR	H312-1	H403-1		5-G-824	PT	03/14/1994	PASS	Y			
II-CS-002	RH	II-CS-002RH-SW-C9	PE,LR PC,PIPE	H403-1	H312-1		5-G-824	PT	03/14/1994	PASS	Y			
II-RH-001	RH	II-RH-001RH-24-1-SW-1	PC,PIPE PC,PIPE	H312-1	H312-1		5-G-824	PT	03/14/1994	PASS	Y			

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Item No. : C5.11 PIPING CIRCUMFERENTIAL WELD <= 1/2" NOMINAL WALL THICKNESS

ISI Drawing	System	Component Number	Component Description	Material		Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
				A	B									
II-RH-001	RH	II-RH-001RH-24-1-SW-1	PC,PIPE PC,PIPE	H312-1	H312-1		5-G-824							
II-RH-002	RH	II-RH-002RH-SW-A3	PC,PIPE PE,LR	H358-1	H403-1		5-G-824	PT	03/17/1994	PASS	Y			
II-RH-002	RH	II-RH-002RH-SW-E3	PC,PIPE PE,LR	H358-1	H403-1		5-G-824	PT	03/18/1994	PASS	Y			
II-RH-002	RH	II-RH-002RH-SW-E8	PC,PIPE PBCC,TR	H358-1	H403-1		5-G-824	PT	03/11/1994	PASS	Y			
II-RH-002	RH	II-RH-002RH-SW-L3	PE,LR PC,PIPE	H403-1	H358-1		5-G-824	PT	03/11/1994	PASS	Y			
II-RH-004	RH	II-RH-004RH-12-2-SW-4	PF,RFWN PC,PIPE	H182-3	H376-1		5-G-824	PT	03/11/1994	PASS	Y			
II-RH-004	RH	II-RH-004RH-FW-66	PE,LR PC,PIPE	H403-1	H358-1		5-G-824	PT	03/11/1994	PASS	Y			
II-RH-004	RH	II-RH-004RH-SW-A6	PE,LR PC,PIPE	H403-1	H358-1		5-G-824	PT	03/14/1994	PASS	Y			
II-RH-004	RH	II-RH-004RH-SW-B3	PC,PIPE PF,RFWN	H358-1	H182-3		5-G-824	PT	03/11/1994	PASS	Y			
II-RH-004	RH	II-RH-004RH-SW-D8	PC,PIPE PE,LR	H358-1	H403-1		5-G-824	PT	03/11/1994	PASS	Y			
II-SI-008	RH	II-SI-008RH-SW-K4	PE,LR PC,PIPE	H403-1	H312-1		5-G-824	PT	03/09/1994	PASS	Y			
II-SI-008	RH	II-SI-008RH-SW-M6	PC,PIPE PC,PIPE	H358-1	H312-1		5-G-824	PT	03/09/1994	PASS	Y			



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ISI Drawing	System	Component Number	Component Description		Material		Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
			PC, PIPE	PC, PIPE	A	B									
II-SI-008	RH	II-SI-008RH-SW-M6	PC, PIPE	PC, PIPE	H358-1	H312-1		5-G-824							
II-RH-001	SI	II-RH-001SI-FW-12	PC, VLV	PC, PIPE	H182-3	H358-1		5-G-810	PT	03/18/1994	PASS	Y			
II-RH-001	SI	II-RH-001SI-SW-F4	PE, LR	PC, PIPE	H403-1	H358-1		5-G-810	PT	03/17/1994	PASS	Y			
II-SI-008	SI	II-SI-008SI-FW-459	PC, PIPE	PE, LR	H312-1	H403-1		5-G-810	PT	03/17/1994	PASS	Y			
II-SI-008	SI	II-SI-008SI-SW-C8	PC, PIPE	PBCC, T	H312-1	H403-1		5-G-810	PT	03/09/1994	PASS	Y			
II-SI-008	SI	II-SI-008SI-SW-H6	PBCC, T	PC, PIPE	H403-1	H312-1		5-G-810	PT	03/11/1994	PASS	Y			
II-SI-009	SI	II-SI-009SI-FW-277	PC, PIPE	PC, PIPE	H312-1	H312-1		5-G-810	PT	03/09/1994	PASS	Y			
II-SI-009	SI	II-SI-009SI-FW-284	PC, PIPE	PC, VLV	H312-1	H182-3		5-G-810	PT	03/28/1994	PASS	Y			
II-SI-009	SI	II-SI-009SI-SW-B7	PC, PIPE	PC, PIPE	H312-1	H312-1		5-G-810	PT	03/22/1994	PASS	Y			
II-SI-009	SI	II-SI-009SI-SW-E4	PBCC, TR	PC, PIPE	H403-1	H312-1		5-G-810	PT	03/28/1994	PASS	Y			
II-SI-009	SI	II-SI-009SI-SW-E5	PC, PIPE	PE, LR	H312-1	H403-1		5-G-810	PT	03/22/1994	PASS	Y			
II-SI-009	SI	II-SI-009SI-SW-E6	PBCC, TR	PC, PIPE	H403-1	H312-1		5-G-810	PT	03/30/1994	PASS	Y			

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 Interval : 1 Period : 2

Category : C-F PRESSURE RETAINING WELDS IN PIPING
 Item No. : C5.11 PIPING CIRCUMFERENTIAL WELD <= 1/2" NOMINAL WALL THICKNESS

ISI Drawing	System	Component Number	Component Description	Material A	Material B	Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
II-SI-009	SI	II-SI-009SI-SW-E6	PBCC, TR PC, PIPE	H403-1	H312-1		5-G-810							
II-SI-009	SI	II-SI-009SI-SW-F3	PC, PIPE PE, LR	H312-1	H403-1		5-G-810	PT	03/22/1994	PASS	Y			
II-SI-022	SI	II-SI-022SI-FW-566	VNOZ1BO PC, PIPE	H350-1	H358-1		5-G-809	PT	03/22/1994	PASS	Y			
II-SI-023	SI	II-SI-023SI-170-1-SW-1	PE, LR PC, PIPE	H403-1	H358-1		5-G-809	PT	04/02/1994	PASS	Y			
II-SI-023	SI	II-SI-023SI-FW-561	PC, PIPE PC, VLV	H376-3	H182-3		5-G-809	PT	04/02/1994	PASS	Y			
II-SI-023	SI	II-SI-023SI-SW-A4	PC, PIPE PE, LR	H358-1	H403-1		5-G-809	PT	04/04/1994	PASS	Y			

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Interval : 1 Period : 2

Category : C-F PRESSURE RETAINING WELDS IN PIPING
Item No. : C5.12 PIPING LONGITUDINAL WELD <= 1/2" NOMINAL WALL THICKNESS

ISI Drawing	System	Component Number	Component Description	Material A	Material B	Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
II-CS-001	CS	II-CS-001CS-128-3-SW-1A	PLSW,P	H376-1			5-G-805								
II-CS-021	CS	II-CS-021CS-FW-209A	PLSW,P	H312-1			5-G-805	PT	03/15/1994	PASS	Y				
II-CS-021	CS	II-CS-021CS-FW-210A	PLSW,P	H312-1			5-G-805	PT	03/28/1994	PASS	Y				
II-CS-021	CS	II-CS-021CS-SW-C4A	PLSW,P	H312-1			5-G-805	PT	03/28/1994	PASS	Y				
II-CS-021	CS	II-CS-021CS-SW-C5A	PLSW,P	H312-1			5-G-805	PT	03/28/1994	PASS	Y				
II-CS-021	CS	II-CS-021CS-SW-D3A	PLSW,P	H312-1			5-G-805	PT	03/28/1994	PASS	Y				
II-CS-021	CS	II-CS-021CS-SW-D4A	PLSW,P	H312-1			5-G-805	PT	03/29/1994	PASS	Y				
II-CS-021	CS	II-CS-021CS-SW-D5A	PLSW,P	H312-1			5-G-805	PT	03/28/1994	PASS	Y				
II-CT-002	CT	II-CT-002CT-FW-20A	PLSW,P	H358-1			5-G-050	PT	03/28/1994	PASS	Y				
II-CT-002	CT	II-CT-002CT-FW-21A	PLSW,P	H358-1			5-G-050	PT	03/22/1994	PASS	Y				
II-CS-002	RH	II-CS-002RH-SW-A12A	PLSW,P	H312-1			5-G-824	PT	03/22/1994	PASS	Y				
II-CS-002	RH	II-CS-002RH-SW-A8A	PLSW,P	H312-1			5-G-824	PT	03/14/1994	PASS	Y				



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Interval : 1 Period : 2

Category : C-F PRESSURE RETAINING WELDS IN PIPING
Item No. : C5.12 PIPING LONGITUDINAL WELD <= 1/2" NOMINAL WALL THICKNESS

ISI Drawing	System	Component Number	Component Description	Material		Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
				A	B									
II-CS-002	RH	II-CS-002RH-SW-A8A	PLSW,P	H312-1			5-G-824	PT	03/14/1994	PASS	Y			
II-CS-002	RH	II-CS-002RH-SW-A9A	PLSW,P	H312-1			5-G-824	PT	03/14/1994	PASS	Y			
II-CS-002	RH	II-CS-002RH-SW-B4A	PLSW,P	H312-1			5-G-824	PT	03/14/1994	PASS	Y			
II-CS-002	RH	II-CS-002RH-SW-C10A	PLSW,P	H312-1			5-G-824	PT	03/14/1994	PASS	Y			
II-CS-002	RH	II-CS-002RH-SW-C9A	PLSW,P	H312-1			5-G-824	PT	03/14/1994	PASS	Y			
II-RH-001	RH	II-RH-001RH-24-1-SW-1A	PLSW,P	H312-1			5-G-824	PT	03/17/1994	PASS	Y			
II-RH-001	RH	II-RH-001RH-24-1-SW-1B	PLSW,P	H312-1			5-G-824	PT	03/17/1994	PASS	Y			
II-RH-002	RH	II-RH-002RH-SW-A3A	PLSW,P	H358-1			5-G-824	PT	03/18/1994	PASS	Y			
II-RH-002	RH	II-RH-002RH-SW-E3A	PLSW,P	H358-1			5-G-824	PT	03/11/1994	PASS	Y			
II-RH-002	RH	II-RH-002RH-SW-E3B	PLSW,EO	H403-1			5-G-824	PT	03/11/1994	PASS	Y			
II-RH-002	RH	II-RH-002RH-SW-E3C	PLSW,EI	H403-1			5-G-824	PT	03/11/1994	PASS	Y			
II-RH-002	RH	II-RH-002RH-SW-E8A	PLSW,P	H358-1			5-G-824	PT	03/11/1994	PASS	Y			

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Interval : 1 Period : 2

Category : C-P PRESSURE RETAINING WELDS IN PIPING
Item No. : C5.12 PIPING LONGITUDINAL WELD <= 1/2" NOMINAL WALL THICKNESS

ISI Drawing	System	Component Number	Component Description	Material A	Material B	Cal-Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
II-RH-002	RH	II-RH-002RH-SW-E8A	PLSW,P	H358-1			5-G-824							
II-RH-002	RH	II-RH-002RH-SW-L3A	PLSW,P	H358-1			5-G-824	PT	03/11/1994	PASS	Y			
II-RH-004	RH	II-RH-004RH-FW-66A	PLSW,P	H358-1			5-G-824	PT	03/11/1994	PASS	Y			
II-RH-004	RH	II-RH-004RH-SW-A6A	PLSW,P	H358-1			5-G-824	PT	03/14/1994	PASS	Y			
II-RH-004	RH	II-RH-004RH-SW-B3A	PLSW,P	H358-1			5-G-824	PT	03/11/1994	PASS	Y			
II-RH-004	RH	II-RH-004RH-SW-D8A	PLSW,P	H358-1			5-G-824	PT	03/11/1994	PASS	Y			
II-SI-008	RH	II-SI-008RH-SW-K4A	PLSW,P	H312-1			5-G-824	PT	03/09/1994	PASS	Y			
II-SI-008	RH	II-SI-008RH-SW-M6A	PLSW,P	H312-1			5-G-824	PT	03/09/1994	PASS	Y			
II-SI-008	RH	II-SI-008RH-SW-M6B	PLSW,P	H312-1			5-G-824	PT	03/18/1994	PASS	Y			
II-RH-001	SI	II-RH-001SI-FW-12A	PLSW,P	H358-1			5-G-810	PT	03/18/1994	PASS	Y			
II-RH-001	SI	II-RH-001SI-SW-F4A	PLSW,P	H358-1			5-G-810	PT	03/17/1994	PASS	Y			
II-RH-001	SI	II-RH-001SI-SW-F4B	PLSW,EO	H403-1			5-G-810	PT	03/17/1994	PASS	Y			

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Category : C-F PRESSURE RETAINING WELDS IN PIPING
Item No. : C5.12 PIPING LONGITUDINAL WELD <= 1/2" NOMINAL WALL THICKNESS

ISI Drawing	System	Component Number	Component Description	Material		Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
				A	B									
II-RH-001	SI	II-RH-001SI-SW-F4B	PLSW,EO	H403-1			5-G-810							
II-RH-001	SI	II-RH-001SI-SW-F4C	PLSW,BI	H403-1			5-G-810	PT	03/17/1994	PASS	Y			
II-SI-008	SI	II-SI-008SI-FW-459A	PLSW,P	H312-1			5-G-810	PT	03/17/1994	PASS	Y			
II-SI-008	SI	II-SI-008SI-SW-C8A	PLSW,P	H312-1			5-G-810	PT	03/09/1994	PASS	Y			
II-SI-008	SI	II-SI-008SI-SW-H3A	PLSW,P	H312-1			5-G-810	PT	03/11/1994	PASS	Y			
II-SI-008	SI	II-SI-008SI-SW-H6A	PLSW,P	H312-1			5-G-810	PT	03/09/1994	PASS	Y			
II-SI-009	SI	II-SI-009SI-FW-277A	PLSW,P	H312-1			5-G-810	PT	03/09/1994	PASS	Y			
II-SI-009	SI	II-SI-009SI-FW-277B	PLSW,P	H312-1			5-G-810	PT	03/28/1994	PASS	Y			
II-SI-009	SI	II-SI-009SI-SW-B7A	PLSW,P	H312-1			5-G-810	PT	03/28/1994	PASS	Y			
II-SI-009	SI	II-SI-009SI-SW-B7B	PLSW,P	H312-1			5-G-810	PT	03/28/1994	PASS	Y			
II-SI-009	SI	II-SI-009SI-SW-E4A	PLSW,P	H312-1			5-G-810	PT	03/28/1994	PASS	Y			
II-SI-009	SI	II-SI-009SI-SW-E5A	PLSW,P	H312-1			5-G-810	PT	03/22/1994	PASS	Y			

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Category : C-F PRESSURE RETAINING WELDS IN PIPING
 Item No. : C5.12 PIPING LONGITUDINAL WELD <= 1/2" NOMINAL WALL THICKNESS

ISI Drawing	System	Component Number	Component Description	Material A B	Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI TS	Relief Request	Indication Type	Indication Resolution
II-SI-009	SI	II-SI-009SI-SW-E5A	PLSW,P	H312-1		5-G-810							
II-SI-009	SI	II-SI-009SI-SW-F3A	PLSW,P	H312-1		5-G-810	PT	03/30/1994	PASS	Y			
II-SI-022	SI	II-SI-022SI-FW-566A	PLSW,P	H358-1		5-G-809	PT	03/22/1994	PASS	Y			
							PT	04/02/1994	PASS	Y			

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Category : C-F PRESSURE RETAINING WELDS IN PIPING
Item No. : C5.21 PIPING CIRCUMFERENTIAL WELD > 1/2" NOMINAL WALL THICKNESS

ISI Drawing	System	Component Number	Component Description		Material		Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
			PC,PIPE	PC,PB	A	B									
II-FMR-01	FW	II-FMR-01FW-SW-G10	PC,PIPE	PC,PB	C106-1	C106-1	UT0291	5-G-044	MT	04/04/1994	PASS	Y			
									UT-45S	04/04/1994	PASS	Y		GEOMETRIC	REF ONLY, OK
II-FMR-01	FW	II-FMR-01FW-SW-J5	PC,PIPE	PE,LR	C106-1	C234-1	UT0291	5-G-044	UT-45S	04/08/1994	PASS	Y		GEOMETRIC	REF ONLY, OK
									MT	04/08/1994	PASS	Y			
II-FMR-01	MS	II-FMR-01MS-SW-E3	PE,LR	PC,PIPE	C234-4	C106-2	UT0311	5-G-042	UT-45S	04/09/1994	PASS	Y			
									MT	04/04/1994	PASS	Y			
II-SI-024	SI	II-SI-024SI-FW-572	PC,PIPE	PC,PB	H376-1	H376-1	UT0201	5-G-810	PT	04/02/1994	PASS	Y			
									UT-45S	04/02/1994	PASS	Y		GEOMETRIC	REF ONLY, OK
II-SI-025	SI	II-SI-025SI-SW-F5	PC,PB	PF,RFWN	H376-1	H182-3	UT0201	5-G-810	UT-45S	04/01/1994	PASS	Y	R2-003		
									PT	04/01/1994	PASS	Y			
II-SI-028	SI	II-SI-028SI-FW-610	PC,PB	PC,VLV	H376-3	H182-1	UT0201	5-G-808	PT	04/01/1994	PASS	Y			
									UT-45S	04/01/1994	PASS	Y	R2-003	GEOMETRIC	REF ONLY, OK
II-SI-028	SI	II-SI-028SI-SW-B3	PC,PB	PC,PB	H376-3	H376-3	UT0201	5-G-808	PT	04/01/1994	PASS	Y			
									UT-45S	04/01/1994	PASS	Y		GEOMETRIC	REF ONLY, OK

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Category : C-F PRESSURE RETAINING WELDS IN PIPING
 Item No. : CS.22 PIPING LONGITUDINAL WELD > 1/2" NOMINAL WALL THICKNESS

ISI Drawing	System	Component Number	Component Description	Material A	Material B	Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
II-FMR-01	MS	II-FMR-01MS-SW-E3A	PLSW,EO	C234-4		UT0311	5-G-042	MT	04/04/1994	PASS	Y			
								UT-45S	04/09/1994	PASS	Y			
II-FMR-01	MS	II-FMR-01MS-SW-E3B	PLSW,EI	C234-4		UT0311	5-G-042	UT-45S	04/09/1994	PASS	Y			
								MT	04/04/1994	PASS	Y			



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 Interval : 1 Period : 2

Category : C-H ALL PRESSURE RETAINING COMPONENTS
 Item No. : C7.30 PIPING PRESSURE RETAINING COMPONENTS - OPERATIONAL

ISI Drawing	System	Component Number	Component Description	Material		Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
				A	B									
II-CS-007	CS	II-CS-007	PRESSURE TEST	PRESSUR	TEST									
II-CS-021	CS	II-CS-021	PRESSURE TEST	PRESSUR	TEST			VT-20P	11/11/1993	PASS	Y			
II-CT-007	CT	II-CT-007	PRESSURE TEST	PRESSUR	TEST			VT-20P	03/22/1994	PASS	Y			
II-CT-008	CT	II-CT-008	PRESSURE TEST	PRESSUR	TEST			VT-20P	11/11/1993	PASS	Y			
II-FW-001	FW	II-FW-001	PRESSURE TEST	PRESSUR	TEST			VT-20P	11/11/1993	PASS	Y			
II-FW-002	FW	II-FW-002	PRESSURE TEST	PRESSUR	TEST			VT-20P	06/02/1993	PASS	Y			
II-FW-003	FW	II-FW-003	PRESSURE TEST	PRESSUR	TEST			VT-20P	06/02/1993	PASS	Y			
II-FW-004	FW	II-FW-004	PRESSURE TEST	PRESSUR	TEST			VT-20P	06/02/1993	PASS	Y			
II-MS-001	MS	II-MS-001	PRESSURE TEST	PRESSUR	TEST			VT-20P	06/02/1993	PASS	Y			
II-MS-002	MS	II-MS-002	PRESSURE TEST	PRESSUR	TEST			VT-20P	06/02/1993	PASS	Y			
II-MS-007	MS	II-MS-007	PRESSURE TEST	PRESSUR	TEST			VT-20P	06/02/1993	PASS	Y			
II-MS-009	MS	II-MS-009	PRESSURE TEST	PRESSUR	TEST			VT-20P	06/02/1993	PASS	Y			

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Category : C-H ALL PRESSURE RETAINING COMPONENTS
 Item No. : C7.30 PIPING PRESSURE RETAINING COMPONENTS - OPERATIONAL

ISI Drawing	System	Component Number	Component Description	Material		Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
				A	B									
II-MS-009	MS	II-MS-009	PRESSURE TEST	PRESSUR	TEST									
								VT-20P	06/02/1993	PASS	Y			
II-RH-001	RH	II-RH-001	PRESSURE TEST	PRESSUR	TEST									
								VT-20P	04/18/1994	PASS	Y			
II-RH-002	RH	II-RH-002	PRESSURE TEST	PRESSUR	TEST									
								VT-20P	04/18/1994	PASS	Y			
II-SI-004	SI	II-SI-004	PRESSURE TEST	PRESSUR	TEST									
								VT-20P	03/22/1994	PASS	Y			
II-SI-008	SI	II-SI-008	PRESSURE TEST	PRESSUR	TEST									
								VT-20P	04/23/1994	PASS	Y			
II-SI-009	SI	II-SI-009	PRESSURE TEST	PRESSUR	TEST									
								VT-20P	04/23/1994	PASS	Y			
II-SI-010	SI	II-SI-010	PRESSURE TEST	PRESSUR	TEST									
								VT-20P	03/22/1994	PASS	Y			
II-SI-011	SI	II-SI-011	PRESSURE TEST	PRESSUR	TEST									
								VT-20P	03/22/1994	PASS	Y			

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Category : C-H	ALL PRESSURE RETAINING COMPONENTS
Item No. : C7.50	PUMPS PRESSURE RETAINING COMPONENTS - OPERATIONAL

ISI Drawing	System	Component Number	Component Description	Material		Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
II-CSIP-1	SI	II-CSIP-1	PRESSURE TEST					VT-20T	05/17/1994	PASS	Y			

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Category : C-H ALL PRESSURE RETAINING COMPONENTS
 Item No. : C7.70 VALVES PRESSURE RETAINING COMPONENTS - OPERATIONAL

ISI Drawing	System	Component Number	Component Description	Material A B	Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
II-CS-007	CS	II-CS-007	PRESSURE TEST	PRESSUR	TEST								
							VT-20V	11/11/1993	PASS	Y			
II-CS-021	CS	II-CS-021	PRESSURE TEST	PRESSUR	TEST								
							VT-20V	03/22/1994	PASS	Y			
II-CT-007	CT	II-CT-007	PRESSURE TEST	PRESSUR	TEST								
							VT-20V	11/11/1993	PASS	Y			
II-CT-008	CT	II-CT-008	PRESSURE TEST	PRESSUR	TEST								
							VT-20V	11/11/1993	PASS	Y			
II-FW-001	FW	II-FW-001	PRESSURE TEST	PRESSUR	TEST								
							VT-20V	06/02/1993	PASS	Y			
II-FW-002	FW	II-FW-002	PRESSURE TEST	PRESSUR	TEST								
							VT-20V	06/02/1993	PASS	Y			
II-FW-003	FW	II-FW-003	PRESSURE TEST	PRESSUR	TEST								
							VT-20V	06/02/1993	PASS	Y			
II-FW-004	FW	II-FW-004	PRESSURE TEST	PRESSUR	TEST								
							VT-20V	06/02/1993	PASS	Y			
II-MS-001	MS	II-MS-001	PRESSURE TEST	PRESSUR	TEST								
							VT-20V	06/02/1993	PASS	Y			
II-MS-002	MS	II-MS-002	PRESSURE TEST	PRESSUR	TEST								
							VT-20V	06/02/1993	PASS	Y			
II-MS-007	MS	II-MS-007	PRESSURE TEST	PRESSUR	TEST								
							VT-20V	06/02/1993	PASS	Y			
II-MS-009	MS	II-MS-009	PRESSURE TEST	PRESSUR	TEST								
							VT-20V	06/02/1993	PASS	Y			

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Category : C-H ALL PRESSURE RETAINING COMPONENTS
 Item No. : C7.70 VALVES PRESSURE RETAINING COMPONENTS - OPERATIONAL

ISI Drawing	System	Component Number	Component Description	Material		Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
				A	B									
II-MS-009	MS	II-MS-009	PRESSURE TEST	PRESSUR	TEST									
								VT-20V	06/02/1993	PASS	Y			
II-RH-001	RH	II-RH-001	PRESSURE TEST	PRESSUR	TEST									
								VT-20V	04/18/1994	PASS	Y			
II-RH-002	RH	II-RH-002	PRESSURE TEST	PRESSUR	TEST									
								VT-20V	04/18/1994	PASS	Y			
II-SI-004	SI	II-SI-004	PRESSURE TEST	PRESSUR	TEST									
								VT-20V	03/22/1994	PASS	Y			
II-SI-008	SI	II-SI-008	PRESSURE TEST	PRESSUR	TEST									
								VT-20V	04/23/1994	PASS	Y			
II-SI-009	SI	II-SI-009	PRESSURE TEST	PRESSUR	TEST									
								VT-20V	04/23/1994	PASS	Y			
II-SI-010	SI	II-SI-010	PRESSURE TEST	PRESSUR	TEST									
								VT-20V	03/22/1994	PASS	Y			
II-SI-011	SI	II-SI-011	PRESSURE TEST	PRESSUR	TEST									
								VT-20V	03/22/1994	PASS	Y			



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Exam Requirement : B03-01 Outage : 1-2-05
Interval : 1 Period : 2

Category : SER SAFETY EVALUATION REPORT, SAFETY REVIEW QUESTION
Item No. : 250.1S SAFETY EVALUATION REPORT, SAFETY REVIEW QUESTION #250.1

ISI Drawing	System	Component Number	Component Description	Material A	Material B	Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
II-CT-007	CT	II-CT-007CT-FW-53	PC,PIPE PC,PIPE	H358-1	H358-1		5-G-050								
II-CT-007	CT	II-CT-007CT-FW-53A	PLSW,P	H358-1			5-G-050	PT	03/21/1994	PASS	Y				
II-CT-007	CT	II-CT-007CT-FW-80A	PLSW,P	H358-1			5-G-050	PT	03/21/1994	PASS	Y				
II-CT-007	CT	II-CT-007CT-FW-80B	PLSW,P	H358-1			5-G-050	PT	03/21/1994	PASS	Y				
II-CT-007	CT	II-CT-007CT-SW-L3	PE,SR PC,PIPE	H403-1	H358-1		5-G-050	PT	03/21/1994	PASS	Y				
II-CT-007	CT	II-CT-007CT-SW-L3A	PLSW,P	H358-1			5-G-050	PT	03/21/1994	PASS	Y				
II-CT-007	CT	II-CT-007CT-SW-L3B	PLSW,EO	H403-1			5-G-050	PT	03/21/1994	PASS	Y				
II-CT-007	CT	II-CT-007CT-SW-L3C	PLSW,EI	H403-1			5-G-050	PT	03/21/1994	PASS	Y				
II-CT-007	CT	II-CT-007CT-SW-P23	PBCC,TR PC,PIPE	H403-1	H358-1		5-G-050	PT	03/21/1994	PASS	Y				
II-CT-007	CT	II-CT-007CT-SW-Q12	PC,PIPE PC,PIPE	H358-1	H358-1		5-G-050	PT	03/21/1994	PASS	Y				
II-CT-007	CT	II-CT-007CT-SW-Q12A	PLSW,P	H358-1			5-G-050	PT	03/21/1994	PASS	Y				
II-CT-007	CT	II-CT-007CT-SW-Q12B	PLSW,P	H358-1			5-G-050	PT	03/21/1994	PASS	Y				

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Exam Requirement : B03-01 Outage : 1-2-05
 Interval : 1 Period : 2

Category : SER	SAFETY EVALUATION REPORT, SAFETY REVIEW QUESTION
Item No. : 250.1S	SAFETY EVALUATION REPORT, SAFETY REVIEW QUESTION #250.1

ISI Drawing	System	Component Number	Component Description	Material		Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
II-CT-007	CT	II-CT-007CT-SW-Q12B	PLSW,P	A	B	H358-1	5-G-050	PT	03/21/1994	PASS	Y			

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Exam Requirement : B04-01 Outage : 1-2-05
Interval : 1 Period : 2

Category : FSAR FINAL SAFETY ANALYSIS REPORT - SECTION 6.6.8,
Item No. : 6.6.8B AUGMENTED PIPING WELD VOLUMETRIC EXAMINATION PER FSAR

ISI Drawing	System	Component Number	Component Description	Material		Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
				A	B									
II-AF-006	AF	II-AF-006AF-FW-245	PC,PIPE PBCC,T	C106-1	C234-1	UT0162	5-G-044							
II-AF-006	AF	II-AF-006AF-FW-247	PC,PIPE PE,LR	C106-1	C234-1	UT0162	5-G-044	UT-45S	04/05/1994	PASS	Y	R2-001	GEOMETRIC	REF ONLY, OK
II-AF-006	AF	II-AF-006AF-FW-248	PC,PIPE PBCC,TR	C106-1	C234-1	UT0162	5-G-044	UT-45S	04/05/1994	PASS	Y			
II-AF-006	AF	II-AF-006AF-SW-A3	PE,LR PC,PIPE	C234-1	C106-1	UT0162	5-G-044	UT-45S	04/05/1994	PASS	Y		GEOMETRIC	REF ONLY, OK
II-AF-007	AF	II-AF-007AF-FW-240	PC,PIPE PBCC,T	C106-1	C234-1	UT0162	5-G-044	UT-45S	04/05/1994	PASS	Y		GEOMETRIC	REF ONLY, OK
II-AF-007	AF	II-AF-007AF-SW-C3	PC,PIPE PE,LR	C106-1	C234-1	UT0162	5-G-044	UT-45S	04/05/1994	PASS	Y		GEOMETRIC	REF ONLY, OK
II-AF-007	AF	II-AF-007AF-SW-C4	PE,LR PC,PIPE	C234-1	C106-1	UT0162	5-G-044	UT-45S	04/05/1994	PASS	Y		GEOMETRIC	REF ONLY, OK

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Exam Requirement : B07-01 Outage : 1-2-05
 Interval : 1 Period : 2

Category : FSAR FINAL SAFETY ANALYSIS REPORT - SECTION 6.6.8
 Item No. : 6.6.8E AUGMENTED PIPING WELD SURFACE EXAMINATION PER FSAR

ISI Drawing	System	Component Number	Component Description	Material		Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
				A	B									
II-BD-001	BD	II-BD-001BD-FW-1	PP,FHS PC,PB	C106-1	C106-1		5-G-051							
II-BD-001	BD	II-BD-001BD-FW-2	PC,PB PC,VLV	C106-1	C216-1		5-G-051	MT	03/22/1994	PASS	Y			
II-BD-001	BD	II-BD-001BD-SW-A8	PC,PB PC,PB	C106-1	C106-1		5-G-051	MT	03/22/1994	PASS	Y			
II-CS-089	CS	II-CS-089CS-FW-1998	PSW,VLV PC,PIPE	H351-3	H312-1		5-G-803	MT	03/22/1994	PASS	Y			
II-CS-089	CS	II-CS-089CS-FW-1999	PC,PIPE PE,RED	H312-1	H403-1		5-G-803	PT	04/05/1994	PASS	Y			
II-CS-089	CS	II-CS-089CS-SW-B9	PC,PIPE PBC,S	H312-1	H182-1		5-G-803	PT	04/05/1994	PASS	Y			



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Exam Requirement : B09-01 Outage : 1-2-05
Interval : 1 Period : 2

Category : IE I.E. BULLETIN EXAMINATIONS
Item No. : 88-08 AUGMENTED PIPING WELD SURFACE AND VOLUMETRIC EXAMINATIONS

ISI Drawing	System	Component Number	Component Description	Material		Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
				A	B									
II-CS-094	RC	II-CS-094RC-SW-A3	PE,LR PC,PIPE	H376-1	H403-1	UT0141	5-G-800	UT-60S	04/07/1994	PASS	Y		GEOMETRIC	REF ONLY, OK
								UT-45S	04/07/1994	PASS	Y	GEOMETRIC	REF ONLY, OK	
II-CS-094	RC	II-CS-094RC-SW-A4	PC,PIPE PE,LR	H376-1	H403-1	UT0141	5-G-800	UT-60S	04/07/1994	PASS	Y		GEOMETRIC	REF ONLY, OK
								UT-45S	04/07/1994	PASS	Y	GEOMETRIC	REF ONLY, OK	
II-SI-017	RC	II-SI-017RC-SW-A3	PSW,E PC,PIPE	H182-1	H376-1	UT0201	5-G-800	UT-45S	04/11/1994	PASS	Y		GEOMETRIC	REF ONLY, OK
								UT-60S	04/11/1994	PASS	Y	GEOMETRIC	REF ONLY, OK	
II-SI-017	RC	II-SI-017RC-SW-A4	PC,PIPE PSW,E	H376-1	H182-1	UT0201	5-G-800	UT-45S	04/11/1994	PASS	Y		GEOMETRIC	REF ONLY, OK
								UT-60S	04/11/1994	PASS	Y	GEOMETRIC	REF ONLY, OK	
II-SI-024	RC	II-SI-024RC-SW-A3	PC,PIPE PE,LR	H376-1	H403-1	UT0201	5-G-800	UT-60S	04/07/1994	PASS	Y		GEOMETRIC	REF ONLY, OK
								UT-45S	04/07/1994	PASS	Y	GEOMETRIC	REF ONLY, OK	
II-SI-024	RC	II-SI-024RC-SW-A4	PE,LR PC,PIPE	H403-1	H376-1	UT0201	5-G-800	UT-60S	04/07/1994	PASS	Y		GEOMETRIC	REF ONLY, OK
								UT-45S	04/07/1994	PASS	Y	GEOMETRIC	REF ONLY, OK	
II-SI-025	RC	II-SI-025RC-SW-J3	PE,LR PC,PIPE	H403-1	H376-1	UT0201	5-G-800	UT-45S	03/31/1994	PASS	Y		GEOMETRIC	REF ONLY, OK
								UT-60S	03/31/1994	PASS	Y	GEOMETRIC	REF ONLY, OK	
II-SI-025	RC	II-SI-025RC-SW-J4	PC,PIPE PE,LR	H376-1	H403-1	UT0201	5-G-800	UT-45S	03/31/1994	PASS	Y		GEOMETRIC	REF ONLY, OK

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Exam Requirement : B09-01 Outage : 1-2-05
Interval : 1 Period : 2

Category : IE I.E. BULLETIN EXAMINATIONS
Item No. : 88-08 AUGMENTED PIPING WELD SURFACE AND VOLUMETRIC EXAMINATIONS

ISI Drawing	System	Component Number	Component Description	Material A	Material B	Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
II-SI-025	RC	II-SI-025RC-SW-J4	PC,PIPE PE,LR	H376-1	H403-1	UT0201	5-G-800							
								UT-60S	03/31/1994	PASS	Y		GEOMETRIC	REF ONLY, OK
II-SI-026	RC	II-SI-026RC-SW-A5	PE,LR PC,PIPE	H403-1	H376-1	UT0201	5-G-800							
								UT-60S	03/29/1994	PASS	Y		GEOMETRIC	REF ONLY, OK
								UT-45S	03/29/1994	PASS	Y		GEOMETRIC	REF ONLY, OK
II-SI-026	RC	II-SI-026RC-SW-A6	PC,PIPE PE,LR	H376-1	H403-1	UT0201	5-G-800							
								UT-60S	03/29/1994	PASS	Y		GEOMETRIC	REF ONLY, OK
								UT-45S	03/29/1994	PASS	Y		GEOMETRIC	REF ONLY, OK
II-SI-027	RC	II-SI-027RC-SW-A3	PC,PIPE PE,LR	H376-1	H403-1	UT0201	5-G-800							
								UT-60S	04/07/1994	PASS	Y		GEOMETRIC	REF ONLY, OK
								UT-45S	04/07/1994	PASS	Y		GEOMETRIC	REF ONLY, OK
II-SI-027	RC	II-SI-027RC-SW-A4	PE,LR PC,PIPE	H403-1	H376-1	UT0201	5-G-800							
								UT-45S	04/07/1994	PASS	Y		GEOMETRIC	REF ONLY, OK
								UT-60S	04/07/1994	PASS	Y		GEOMETRIC	REF ONLY, OK
II-SI-028	RC	II-SI-028RC-SW-F5	PC,PIPE PE,LR	H376-1	H403-1	UT0201	5-G-800							
								UT-45S	04/07/1994	PASS	Y		GEOMETRIC	REF ONLY, OK
								UT-60S	04/07/1994	PASS	Y		GEOMETRIC	REF ONLY, OK
II-SI-028	RC	II-SI-028RC-SW-F6	PE,LR PC,PIPE	H403-1	H376-1	UT0201	5-G-800							
								UT-60S	04/07/1994	PASS	Y		GEOMETRIC	REF ONLY, OK
								UT-45S	04/07/1994	PASS	Y		GEOMETRIC	REF ONLY, OK



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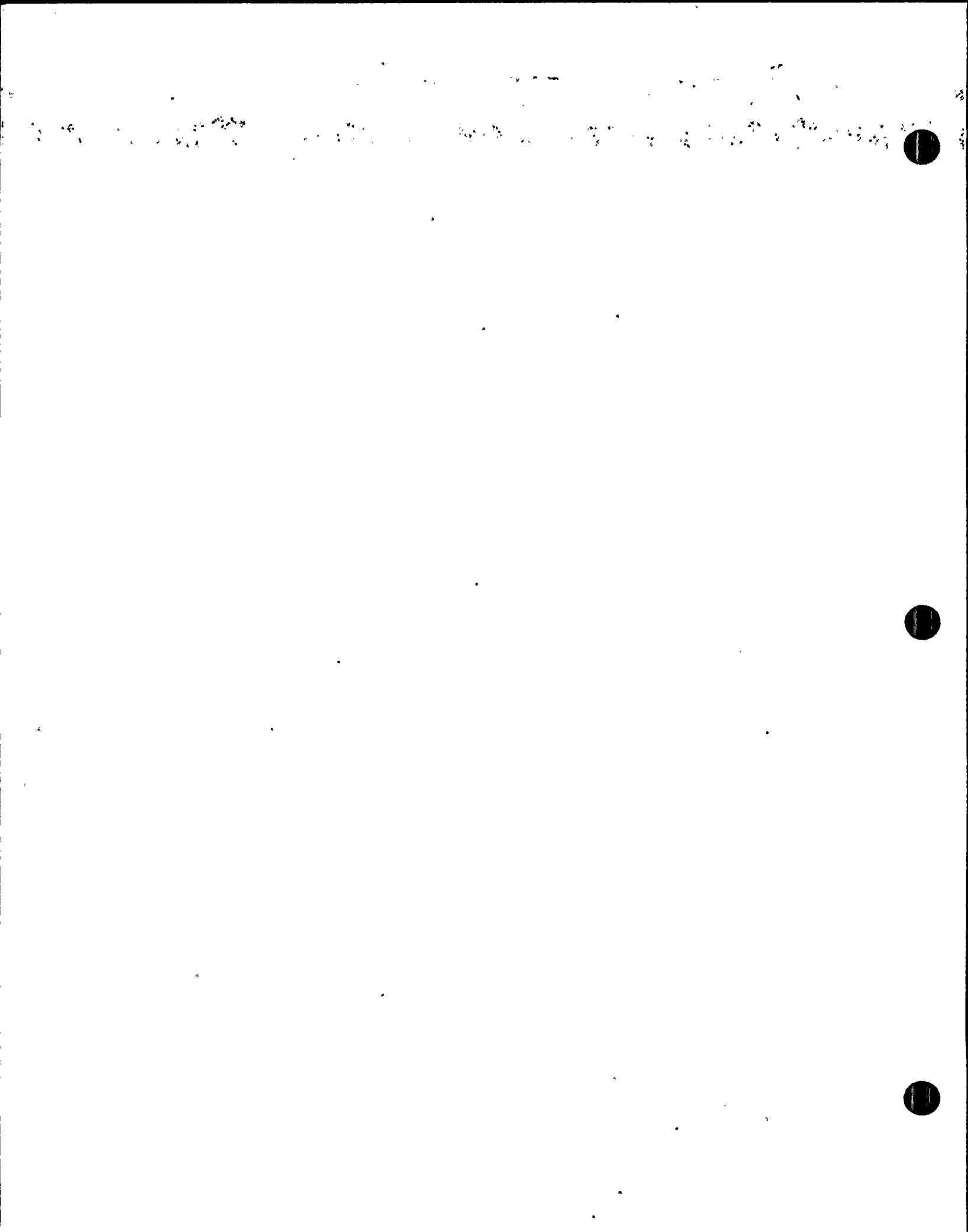
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Exam Requirement : FWNTFC Outage : 1-2-05
 Interval : 1 Period : 2

Category : C-F
 Item No. : C5.21

ISI Drawing	System	Component Number	Component Description	Material		Cal Standard	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
				A	B									
II-FMR-01	FW	II-FMR-01FW-FW-497	PE,LR	VNOZ1AI	C234-1 C508-1	COMP	5-G-044							
								UT-00	03/31/1994	PASS	Y			
								UT-60L	03/31/1994	PASS	Y			
								UT-45	03/31/1994	PASS	Y		GEOMETRIC	REF ONLY, OK
II-FMR-02	FW	II-FMR-02FW-FW-491	PE,LR	VNOZ1BI	C106-1 C508-1	UT0291	5-G-044							
								UT-45S	03/31/1994	PASS	Y		GEOMETRIC	REF ONLY, OK
								UT-00	03/31/1994	PASS	Y			
								UT-60L	03/31/1994	PASS	Y			
II-FMR-03	FW	II-FMR-03FW-FW-485	PE,LR	VNOZ1CI	C234-1 C508-1	UT0291	5-G-044							
								UT-60L	03/31/1994	PASS	Y			
								UT-00	03/31/1994	PASS	Y			
								UT-45S	03/31/1994	PASS	Y		GEOMETRIC	REF ONLY, OK

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Component Number	Category	Item Number	Exam Type	Exam Date	Results	PCR#
5-RC-1-02-FW-1	B-J	B9.40	PT	4/10/94	PASS	(0420)
5-RC-1-02-FW-2	B-J	B9.40	PT	4/11/94	PASS	"
5-RC-1-02-FW-3	B-J	B9.40	PT	4/11/94	PASS	"
5-RC-1-02-FW-4	B-J	B9.21	PT	4/09/94	PASS	"
5-RC-1-02-FW-5	B-J	B9.40	PT	4/10/94	PASS	"
5-RC-2-02-FW-1	B-J	B9.40	PT	4/10/94	PASS	"
5-RC-2-02-FW-2	B-J	B9.40	PT	4/10/94	PASS	"
5-RC-2-02-FW-3	B-J	B9.40	PT	4/10/94	PASS	"
5-RC-2-02-FW-4	B-J	B9.21	PT	4/09/94	PASS	"
5-RC-2-02-FW-5	B-J	B9.40	PT	4/11/94	PASS	"
5-RC-3-02-FW-1	B-J	B9.40	PT	4/10/94	PASS	"
5-RC-3-02-FW-2	B-J	B9.40	PT	4/10/94	PASS	"
5-RC-3-02-FW-3	B-J	B9.40	PT	4/10/94	PASS	"
5-RC-3-02-FW-4	B-J	B9.21	PT	4/08/94	PASS	"
5-RC-3-02-FW-5	B-J	B9.40	PT	4/09/94	PASS	"
1-AF-18-01-FW-1	C-F	C5.11	MT	4/15/94	PASS	(6721)
" "	"	"	UT	4/15/94	PASS	"
1-AF-18-01-FW-2	C-F	C5.11	MT	4/15/94	PASS	"
" "	"	"	UT	4/15/94	PASS	"
1-AF-18-01-FW-3	C-F	C5.11	MT	4/18/94	PASS	"
" "	"	"	UT	4/19/94	PASS	"
1-AF-18-01-FW-4	C-F	C5.11	MT	4/18/94	PASS	"
" "	"	"	UT	4/19/94	PASS	"
1-AF-18-01-FW-5	C-F	C5.11	MT	4/18/94	PASS	"
" "	"	"	UT	4/19/94	PASS	"
1-AF-18-01-FW-6	C-F	C5.11	MT	4/18/94	PASS	"
" "	"	"	UT	4/19/94	PASS	"
1-AF-18-01-FW-7	C-F	C5.11	MT	4/18/94	PASS	"
" "	"	"	UT	4/19/94	PASS	"
M-10-1-01-FW-1	C-F	C5.11	PT	3/30/94	PASS	"
1-AF-1-02-FW-1	C-F	C5.11	PT	4/23/94	PASS	"
1-AF-1-02-FW-2	C-F	C5.11	MT	4/22/94	PASS	"
1-AF-1-02-FW-3	C-F	C5.11	MT	4/22/94	PASS	"
1-AF-1-02-FW-4	C-F	C5.11	MT	4/22/94	PASS	"
1-AF-1-02-FW-5	C-F	C5.11	MT	4/22/94	PASS	"
1-AF-1-02-FW-7	C-F	C5.11	MT	4/22/94	PASS	"
1-AF-1-02-FW-8	C-F	C5.11	MT	4/22/94	PASS	"
1-AF-1-02-FW-9	C-F	C5.11	MT	4/22/94	PASS	"
1-AF-1-02-FW-10	C-F	C5.11	MT	4/22/94	PASS	"
1-AF-1-02-FW-11	C-F	C5.11	MT	4/23/94	PASS	"
1-AF-1-02-FW-12	C-F	C5.11	MT	4/23/94	PASS	"



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Component Number	Category	Item Number	Exam Type	Exam Date	Results	PCR#
1-AF-1-02-FW-13	C-F	C5.11	MT	4/23/94	PASS	(6721)
1-AF-1-02-FW-14	C-F	C5.11	MT	4/23/94	PASS	"
1-AF-1-02-FW-15	C-F	C5.11	MT	4/23/94	PASS	"
1-AF-1-02-FW-24	C-F	C5.11	MT	4/22/94	PASS	"
1-AF-1-02-FW-25	C-F	C5.11	MT	4/22/94	PASS	"
1-AF-1-02-FW-26	C-F	C5.11	MT	4/23/94	PASS	"
1-AF-1-02-FW-27	C-F	C5.11	MT	4/23/94	PASS	"
1-AF-2-02-FW-1	C-F	C5.11	MT	4/22/94	PASS	"
1-AF-2-02-FW-2	C-F	C5.11	MT	4/21/94	PASS	"
1-AF-2-02-FW-3	C-F	C5.11	MT	4/21/94	PASS	"
1-AF-2-02-FW-4	C-F	C5.11	MT	4/21/94	PASS	"
1-AF-2-02-FW-5	C-F	C5.11	MT	4/21/94	PASS	"
1-AF-2-02-FW-6	C-F	C5.11	MT	4/21/94	PASS	"
1-AF-2-02-FW-7	C-F	C5.11	MT	4/21/94	PASS	"
1-AF-2-02-FW-8	C-F	C5.11	MT	4/21/94	PASS	"
1-AF-2-02-FW-9	C-F	C5.11	MT	4/21/94	PASS	"
1-AF-2-02-FW-10	C-F	C5.11	MT	4/21/94	PASS	"
1-AF-2-02-FW-11	C-F	C5.11	MT	4/21/94	PASS	"
1-AF-2-02-FW-12	C-F	C5.11	MT	4/21/94	PASS	"
1-AF-2-02-FW-13	C-F	C5.11	MT	4/16/94	PASS	"
1-AF-2-02-FW-14	C-F	C5.11	MT	4/16/94	PASS	"
1-AF-2-02-FW-15	C-F	C5.11	MT	4/16/94	PASS	"
1-AF-2-02-FW-16	C-F	C5.11	MT	4/16/94	PASS	"
1-AF-2-02-FW-17	C-F	C5.11	MT	4/16/94	PASS	"
1-AF-2-02-FW-18	C-F	C5.11	MT	4/16/94	PASS	"
1-AF-2-02-FW-19	C-F	C5.11	MT	4/16/94	PASS	"
1-AF-2-02-FW-20	C-F	C5.11	MT	4/16/94	PASS	"
1-AF-2-02-FW-32	C-F	C5.11	MT	4/16/94	PASS	"
1-AF-2-02-FW-33	C-F	C5.11	MT	4/21/94	PASS	"
1-AF-2-02-FW-34	C-F	C5.11	MT	4/21/94	PASS	"



SECTION 3

NDE EXAMINATION PROCEDURES

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OUTAGE: 1-2-05

TITLE: NDE EXAMINATION PROCEDURES

(PROCEDURE NO.)	REV. NO.	AC NO.	TITLE
EST-201	4	1	ASME SYSTEM PRESSURE TESTS
GQP-97	4	0	LIQUID PENETRANT EXAMINATION AND ACCEPTANCE STANDARDS FOR WELDS, BASE MATERIAL, AND CLADDING
ISI-202	4	0	SAFETY-RELATED COMPONENT SUPPORT (HANGERS AND SNUBBERS) EXAMINATION AND TESTING PROGRAM POM VOL. 6, PART 7
ISI-400T	0	0	PSI/ISI EXAMINATION AREAS AND VOLUMES (NES 83A0283 R.1)
ISI-404T	0	TC-3504	ULTRASONIC EXAMINATION OF PIPING SYSTEMS (NES 83A6013 R.2)
ISI-405T	0	TC-3509	MAGNETIC PARTICLE EXAMINATION (NES 83A6113 R.3)
ISI-406T	0	0	ULTRASONIC LINEARITY VERIFICATION (NES 80A9053 R.9)
ISI-407T	0	TC-3510	LIQUID PENETRANT EXAMINATION (NES 83A6103 R.1)
ISI-408T	0	0	CALIBRATION OF MAGNETIC PARTICLE EXAMINATION EQUIPMENT (NES 80A9054 R.5)
ISI-409T	0	0	CALIBRATION OF THERMOMETERS (NES 80A9055 R.5)

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OUTAGE: 1-2-05

TITLE: NDE EXAMINATION PROCEDURES

(PROCEDURE NO.)	REV. NO.	AC NO.	TITLE
ISI-410T	0	0	PROCEDURE FOR CERTIFICATION OF NDE PERSONNEL (NES 80A9068, R.10)
NDEP-201	15	0	LIQUID PENETRANT EXAMINATION (VISIBLE DYE, SOLVENT REMOVABLE)
NDEP-301	10	03	MAGNETIC PARTICLE EXAMINATION (CP&L)
NDEP-612	11	0	VT-2 VISUAL EXAMINATION OF NUCLEAR POWER PLANT COMPONENTS
NDEP-613	12	0	VT-3 VISUAL EXAMINATION OF NUCLEAR POWER PLANT COMPONENTS
NDEP-614	11	0	VT-4 VISUAL EXAMINATION OF NUCLEAR POWER PLANT COMPONENTS
NDEP-1000	09	0	ADDITIONAL EXAMINATION CRITERIA FOR PSI/ISI SURFACE EXAMINATION (CP&L)



SECTION 4

PROCEDURE QUALIFICATION RECORDS

NES NDE EXAMINATION PROCEDURE QUALIFICATION

PROCEDURE	REVISION	AC	TITLE
ISI-407T (NES 83A6103)	0 1	TC-3510 N/A	LIQUID PENETRANT EXAMINATION. QUALIFICATION OF NEW PROCEDURE
ISI-407T (NES 83A6103)	0 1	TC-3510 N/A	LIQUID PENETRANT EXAMINATION. QUALIFICATION TO 35°F

SECTION 5

NDE PERSONNEL CERTIFICATIONS

INDEX

OUTAGE: 1-2-05

TITLE: NDE PERSONNEL CERTIFICATIONS LIST

COMPANY	NAME
NES, Inc.	ANDREW S. BULLOCK
NES, Inc.	ART PENNANEN
NES, Inc.	BEN SANDEN
NES, Inc.	CLIFF ANDERSON
NES, Inc.	DAN MIELKE
NES, Inc.	DAN SUMMERFORD
NES, Inc.	DAVID MARTIN
NES, Inc.	HERSCHEL HALE
NES, Inc.	JAMES PHILLIPPI
NES, Inc.	KENT STIDHAM
NES, Inc.	MIKE HAHN
NES, Inc.	NANCY LaSOYA
NES, Inc.	PETE HERRMANN
NES, Inc.	SCOTT LARSON
NES, Inc.	STEVE WOLLUM
NES, Inc.	TIM WINFIELD
NRT (QC)	THOMAS BELLIVEAU, JR.
NRT (QC)	JAMES W. HARRELL
NRT (QC)	EUGENE VICK
NRT (QC)	JOSEPH MINTON
NRT (QC)	JOSEPH JENCIK
NRT (QC)	GEORGE BRANNAN, JR.

INDEX

-- OUTAGE: 1-2-05

TITLE: NDE PERSONNEL CERTIFICATIONS LIST

COMPANY

NAME

CP&L

WARD MERCER

CP&L

T. W. ROGERS

CP&L

GARY D. LAUE

CP&L

S. ANDY BARTROM

CP&L

JAYNE MARTIN

PCI

LARRY VICE

PCI

LOU PELA III

PCI

PAUL GABRIEL

PCI

MIKE BAUGHN

PCI

SCOTT SCHMALZ

NES, Inc.

SHNPP SPRING 1994 OUTAGE 1-2-5

NES NDE PERSONNEL CERTIFICATION LIST

NAME	UT LEVEL	PT LEVEL	MT LEVEL	VT LEVEL
ANDY BULLOCK	II	N/A	II	N/A
ART PENNANEN	III	III	III	N/A
BEN SANDEN	II	II	N/A	N/A
CLIFF ANDERSON	III	III	III	II
DAN MIELKE	II-T	N/A	N/A	N/A
DAN SUMMERFORD	II-T	N/A	N/A	N/A
DAVID MARTIN	II	II	N/A	N/A
HERSCHEL HALE	II	II	II	II
JAMES PHILLIPPI	II-T	II	II	N/A
KENT STIDHAM	II-T	II	N/A	N/A
MIKE HAHN	II	II	II	N/A
NANCY LaSOYA	II-T	N/A	N/A	N/A
PETE HERRMANN	II-T	N/A	N/A	N/A
SCOTT LARSON	III	III	III	III
STEVE WOLLUM	II-T/ LEVEL I	II	II	N/A
TIM WINGFIELD	II-T	II	II	N/A

SHNPP SPRING 1994 OUTAGE 1-2-5
NRT (QC) NDE PERSONNEL CERTIFICATION LIST

NAME	UT LEVEL	PT LEVEL	MT LEVEL	VT LEVEL
THOMAS A. BELLIVEAU, JR.	N/A	II		II
JAMES W. HARRELL	N/A	II		II
EUGENE E. VICK	N/A	II	II	II
JOSEPH R. MINTON	N/A	II	II	II
JOSEPH H. JENCIK	N/A	II	II	II
GEORGE J. BRANNAN, JR.	N/A			II

SHNPP SPRING 1994 OUTAGE 1-2-5
CP&L NDE PERSONNEL CERTIFICATION LIST

NAME	UT LEVEL	PT LEVEL	MT LEVEL	VT LEVEL
GARY D. LAUE	I			II
S. ANDY BARTROM		II		II
TONY WAYNE ROGERS		II	II	II
JAYNE MARTIN				II
WARD MERCER			II	II



SHNPP SPRING 1994 OUTAGE 1-2-5
PCI NDE PERSONNEL CERTIFICATION LIST

NAME	PT LEVEL
LARRY VICE	II
LOU PELA III	II
PAUL GABRIEL	II
MIKE BAUGHN	II
SCOTT SCHMALZ	II

SECTION 6

NDE CALIBRATION BLOCKS



**CAROLINA POWER AND LIGHT
SHNPP UNIT 1
NDE CALIBRATION BLOCKS**

CALIBRATION BLOCK NO.	MATERIAL	DESCRIPTION
UT-14-1	SA-376 TP304	3" SCH 160
UT-16-2	SA-106	4" dia.
UT-18-1	SA-106	6" dia.
UT-20-1	SA376 TP304	6" SCH 160
UT-29-1	SA-106	16" dia.
UT-31-1	SA-106	30" dia.
UT-58-1	SA-335 GR. P22	6" SCH 120

SECTION 7

EQUIPMENT

INDEX

OUTAGE: 1-2-05

TITLE: ULTRASONIC INSTRUMENT LINEARITY RECORDS (NES)

MODEL	SERIAL NO.
SONIC 136	1008 L
SONIC 136	1009 L
SONIC 136	1010 L
SONIC 136	1011 L

NES, Inc.

SHNPP SPRING 1994 OUTAGE 1-2-5 TRANSDUCER INVENTORY LIST

MFG.	SERIAL NO.	SIZE	FREQUENCY
KBA	031243	.375"	2.25
SIGMA	2211-89002	12 X 25 MM (CP&L)	2
KBA	30261	.375"	2.25
KBA	B07680	.5"	2.25
KBA	C31627	.25"	5
KBA	D10970	.25"	2.25
KBA	E18404	.5"	2.25
KBA	E26683	10 MM (WSY-70)	4
KBA	J09185	.25"	2.25
KBA	J10523	.5"	2.25
KBA	K05973	.25"	2.25
KBA	M12411	.5"	5

INDEX

OUTAGE: 1-2-05
TITLE: THERMOMETERS

SERIAL NO.

94-21

94-22

94-23

94-24

94-25

94-26

CT834 (CP&L)

QTC-07

QTC-08

INDEX

OUTAGE: 1-2-05

TITLE: MAGNETIC PARTICLE EQUIPMENT LIST

MFG.	SERIAL NO.	MODEL	BATCH NO.
PARKER	423	DA-400	N/A
NES-	SRO-MT-001	TEST WEIGHT	10.76 LBS
PARKER	1900	B-300	N/A
CPL	CT-1481	TEST WEIGHT	10.00 LBS

NES

LIQUID PENETRANT COMPARATOR BLOCK

<u>BLOCK NO.</u>	<u>MATERIAL</u>	<u>DESCRIPTION</u>
SRO-PT1	ALUM.	CRACKED ALUMINUM BLOCK

SECTION 8

MATERIALS

INDEX

OUTAGE: 1-2-05
TITLE: MATERIALS

CLEANER/REMOVER:

MAGNAFLUX	SKC-S	92C02K
-		92L02K

PENETRANT:

MAGNAFLUX	SKL-HF/S	90L02K
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MAGNAFLUX	SKL-SP	94C04K
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DEVELOPER:

MAGNAFLUX	SKD-S2	92E020K
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MAGNAFLUX	SKD-S2	92J05K
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COUPLANT:

ULTRAGEL II	9092	
	092121	

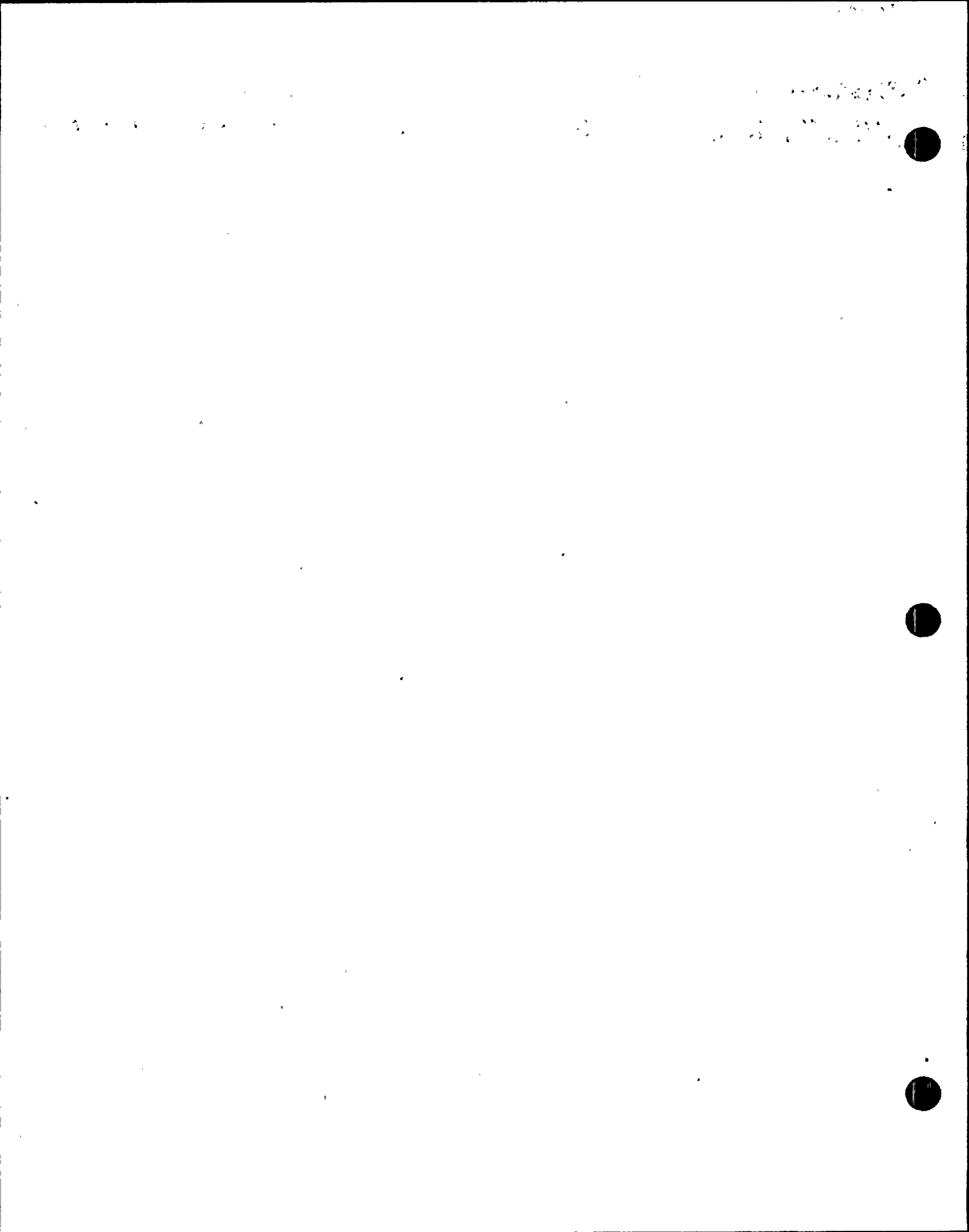
MAG. POWDER:

MAGNAFLUX	8A RED	88L063
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92G027

CP&L PART NUMBER

MAGNAFLUX	8A RED	731-842-28
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SECTION 9

RELIEF REQUESTS



RF05 RELIEF REQUESTS

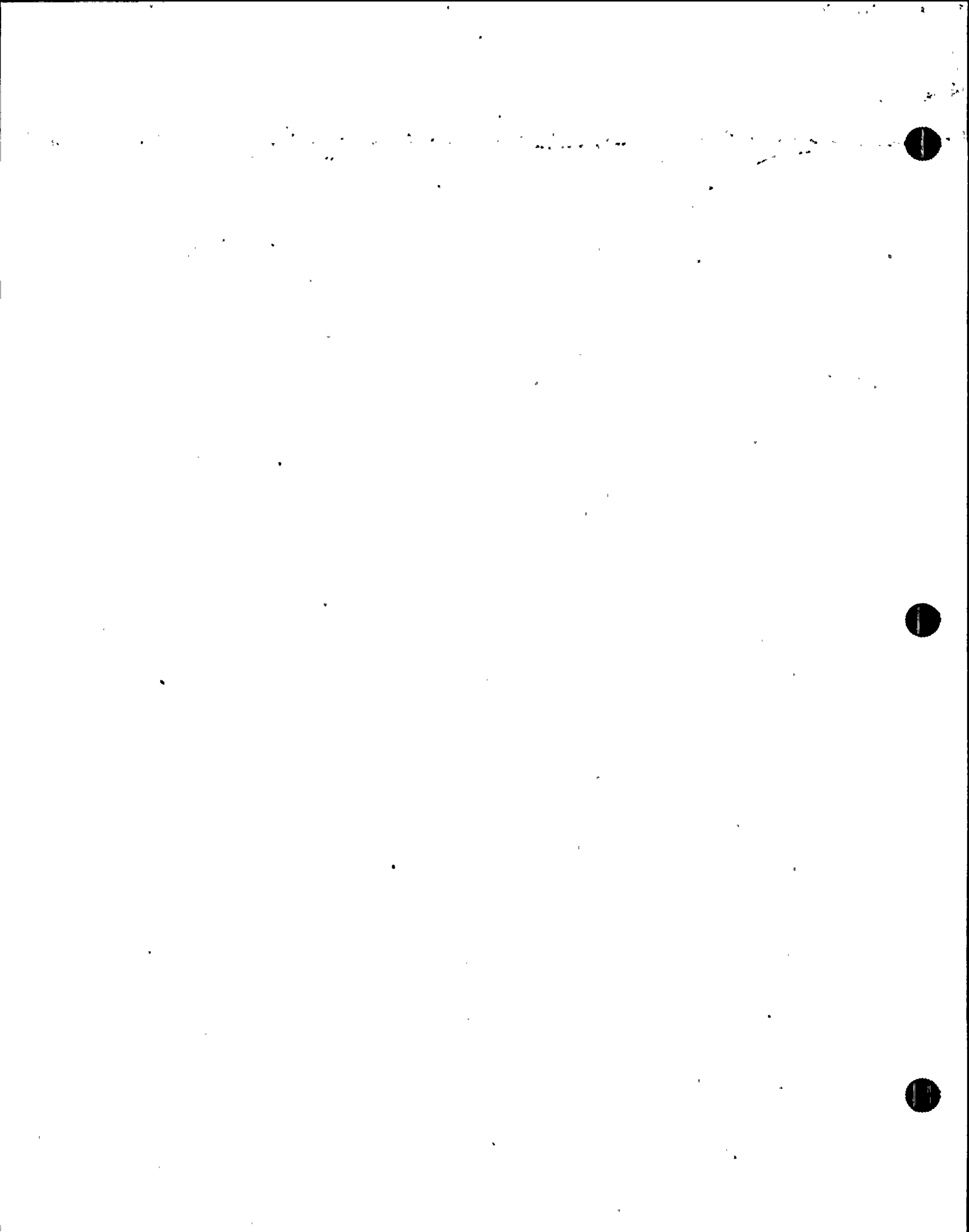
Relief Request	Component	Category	Item No.	Exam
R2-002	II-AF-006AF-FW-245	FSAR	6.6.8B	UT-45S
Comments: Circ. 75%, Axial 75% Complete				
R2-003	II-SI-025SI-SW-F5	C-F	C5.21	UT-45S
Comments: Circ. 67%, Axial 50% Complete				
R2-003	II-SI-028SI-FW-610	C-F	C5.21	UT-45S
Comments: Circ. 67%, Axial 50% Complete				

SECTION 10

CUSTOMER NOTIFICATION FORMS LIST

CUSTOMER NOTIFICATION FORMS LIST

<u>NUMBER</u>	<u>COMPONENT/DESCRIPTION</u>	<u>RESOLUTION</u>	<u>DATE ACCEPTED</u>
94-01	6" Sch. 80 CS UT cal. block	Substitute using Cal. Block UT-18-1 as an interim until a CRMO block is fabricated.	4-22-94



SECTION 11

ISOMETRIC DRAWINGS

INSERVICE INSPECTION ISOMETRICS

1-ISI-AF-5	REV. 4
1-ISI-AF-6	REV. 2
1-ISI-AF-7	REV. 2
1-ISI-AF-8	REV. 3
1-ISI-AF-10	REV. 2
1-ISI-BD-1	REV. 0
1-ISI-CS-1	REV. 1
1-ISI-CS-2	REV. 0
1-ISI-CS-21	REV. 1
1-ISI-CS-4	REV. 0
1-ISI-CS-89	REV. 0
1-ISI-CS-93	REV. 0
1-ISI-CS-94	REV. 0
1-ISI-CS-97	REV. 0
1-ISI-CT-1	REV. 0
1-ISI-CT-2	REV. 1
1-ISI-CT-7	REV. 2
1-ISI-FW-4	REV. 2
1-ISI-FW-MS-RC-1	REV. 1
1-ISI-FW-MS-RC-2	REV. 1
1-ISI-FW-MS-RC-3	REV. 2
1-ISI-MS-2	REV. 0
1-ISI-RC-8	REV. 0
1-ISI-RC-10	REV. 0
1-ISI-RC-11	REV. 1
1-ISI-RC-23	REV. 0
1-ISI-RH-1	REV. 0
1-ISI-RH-2	REV. 1
1-ISI-RH-4	REV. 0
1-ISI-SI-17	REV. 0
1-ISI-SI-22	REV. 1
1-ISI-SI-23	REV. 0
1-ISI-SI-24	REV. 0
1-ISI-SI-25	REV. 1
1-ISI-SI-26	REV. 0
1-ISI-SI-27	REV. 0
1-ISI-SI-28	REV. 0
1-ISI-SI-8	REV. 2
1-ISI-SI-9	REV. 2



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2

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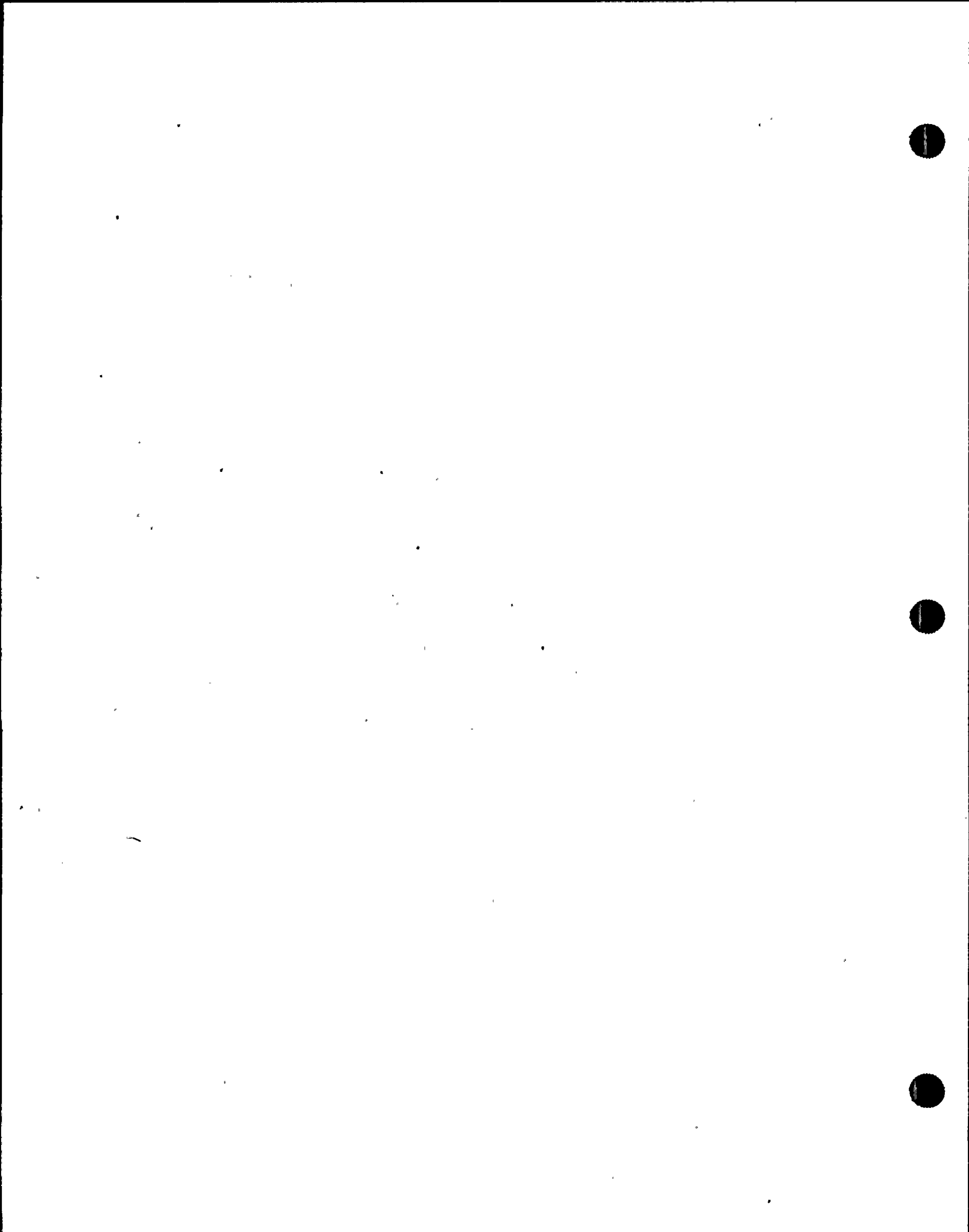
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SECTION 12

PIPE SUPPORT IN-SERVICE INSPECTION PROGRAM



Carolina Power & Light Company
Harris Nuclear Power Plant
Inspection Report
Hangers for Outage 1-2-05, Interval 1 and Period 2
Examination Requirement 83S-01
Preservice Examinations

Component Number	Category	Item Number	NDE Proc	Rev	Exam Type	Exam Date	Results
AF-H-0126	F-B	F2.40	NDEP613	13	VT-3	4/14/94	PASS
AF-H-0167	F-C	F3.40	NDEP613	13	VT-3	3/28/94	PASS
AF-H-0167A	F-C	F3.50	NDEP614	11	VT-4	3/28/94	PASS
AF-H-0189	F-C	F3.40	NDEP613	13	VT-3	3/28/94	PASS
AF-H-0189A	F-C	F3.50	NDEP614	11	VT-4	3/28/94	PASS
AF-H-0285	F-B	F2.40	NDEP613	13	VT-3	4/23/94	PASS
AF-H-0286	F-C	F3.40	NDEP613	13	VT-3	4/29/94	PASS
AF-H-0286A	F-C	F3.50	NDEP614	11	VT-4	4/29/94	PASS
AF-H-0286B	F-C	F3.50	NDEP614	11	VT-4	4/29/94	PASS
AF-H-0287	F-B	F2.40	NDEP613	13	VT-3	4/29/94	PASS
AF-H-0288	F-B	F2.40	NDEP613	13	VT-3	4/29/94	PASS
AF-H-0289	F-B	F2.40	NDEP613	13	VT-3	4/29/94	PASS
AF-H-0290	F-B	F2.40	NDEP613	13	VT-3	4/29/94	PASS
AF-H-0291	F-B	F2.40	NDEP613	13	VT-3	4/26/94	PASS
AF-H-0292	F-B	F2.40	NDEP613	13	VT-3	4/26/94	PASS
AF-H-0293	F-B	F2.40	NDEP613	13	VT-3	4/26/94	PASS
AF-H-0294	F-B	F2.40	NDEP613	13	VT-3	4/26/94	PASS
AF-H-0295	F-B	F2.40	NDEP613	13	VT-3	4/26/94	PASS
AF-H-0302	F-C	F3.40	NDEP613	13	VT-3	4/29/94	PASS
AF-H-0302A	F-C	F3.50	NDEP614	11	VT-4	4/29/94	PASS
AF-H-0302B	F-C	F3.50	NDEP614	11	VT-4	4/29/94	PASS

Component Number	Category	Item Number	NDE Proc	Rev	Exam Type	Exam Date	Results
AF-H-0303	F-C	F3.40	NDEP613	13	VT-3	4/29/94	PASS
AF-H-0303A	F-C	F3.50	NDEP614	11	VT-4	4/29/94	PASS
AF-H-0323	F-B	F2.40	NDEP613	13	VT-3	4/30/94	PASS
AF-H-0324	F-B	F2.40	NDEP613	13	VT-3	4/26/94	PASS
AF-H-0325	F-B	F2.40	NDEP613	13	VT-3	4/26/94	PASS
AF-H-0326	F-C	F3.40	NDEP613	13	VT-3	4/29/94	PASS
AF-H-0326A	F-C	F3.50	NDEP614	11	VT-4	4/29/94	PASS
AF-H-327	F-C	F3.40	NDEP613	13	VT-3	4/29/94	PASS
AF-H-0327A	F-C	F3.50	NDEP614	11	VT-4	4/29/94	PASS
AF-H-0328	F-C	F3.40	NDEP613	13	VT-3	4/29/94	PASS
AF-H-0328A	F-C	F3.50	NDEP614	11	VT-3	4/29/94	PASS
AF-H-0328B	F-C	F3.50	NDEP614	11	VT-3	4/29/94	PASS
AF-H-0329	F-B	F2.40	NDEP613	13	VT-3	4/26/94	PASS
AF-H-0330	F-B	F2.40	NDEP613	13	VT-3	4/26/94	PASS
AF-H-0331	F-B	F2.40	NDEP613	13	VT-3	4/26/94	PASS
AF-H-0332	F-B	F2.40	NDEP613	13	VT-3	4/26/94	PASS
AF-H-0333	F-C	F3.40	NDEP613	13	VT-3	4/29/94	PASS
AF-H-0333A	F-C	F3.50	NDEP614	11	VT-4	4/29/94	PASS
AF-H-0334	F-C	F3.40	NDEP613	13	VT-3	4/29/94	PASS
AF-H-0334A	F-C	F3.50	NDEP614	11	VT-4	4/29/94	PASS
AF-H-0335	F-C	F3.40	NDEP613	13	VT-3	4/26/94	PASS
AF-H-0335A	F-C	F3.50	NDEP614	11	VT-4	4/26/94	PASS
AF-H-0336	F-C	F3.40	NDEP613	13	VT-3	4/29/94	PASS
AF-H-0336A	F-C	F3.50	NDEP614	11	VT-4	4/29/94	PASS



Component Number	Category	Item Number	NDE Proc	Rev	Exam Type	Exam Date	Results
AF-H-0337	F-C	F3.40	NDEP613	13	VT-3	4/29/94	PASS
AF-H-0337A	F-C	F3.50	NDEP614	11	VT-4	4/29/94	PASS
AF-H-0338	F-C	F3.40	NDEP613	13	VT-3	4/29/94	PASS
AF-H-0338A	F-C	F3.50	NDEP614	11	VT-4	4/29/94	PASS
AF-H-0338B	F-C	F3.50	NDEP614	11	VT-4	4/29/94	PASS
AF-H-0339	F-C	F3.40	NDEP613	13	VT-3	4/29/94	PASS
AF-H-0339A	F-C	F3.50	NDEP614	11	VT-4	4/29/94	PASS
AF-H-0347	F-B	F2.40	NDEP613	13	VT-3	4/29/94	PASS
AF-H-0368	F-C	F3.40	NDEP613	13	VT-3	4/29/94	PASS
AF-H-0368A	F-C	F3.50	NDEP614	11	VT-4	4/29/94	PASS
AF-H-0369	F-C	F3.40	NDEP613	13	VT-3	4/29/94	PASS
AF-H-0369A	F-C	F3.50	NDEP614	11	VT-4	4/29/94	PASS
AF-H-0388	F-B	F2.40	NDEP613	13	VT-3	4/29/94	PASS
AF-H-0389	F-B	F2.40	NDEP613	13	VT-3	4/29/94	PASS
AF-H-0390	F-C	F3.40	NDEP613	13	VT-3	4/29/94	PASS
AF-H-0390A	F-C	F3.50	NDEP614	11	VT-4	4/29/94	PASS
AF-H-0390B	F-C	F3.50	NDEP614	11	VT-4	4/29/94	PASS
AF-H-0391	F-C	F3.40	NDEP613	13	VT-3	4/29/94	PASS
AF-H-0391A	F-C	F3.50	NDEP614	11	VT-4	4/29/94	PASS
AF-H-0391B	F-C	F3.50	NDEP614	11	VT-4	4/29/94	PASS
AF-H-0443	F-C	F3.40	NDEP613	13	VT-4	4/29/94	PASS
AF-H-0459	F-B	F2.40	NDEP613	13	VT-3	4/14/94	PASS
AF-H-0464	F-B	F2.40	NDEP613	13	VT-3	4/15/94	PASS
AF-H-0466	F-C	F3.40	NDEP613	13	VT-3	4/15/94	PASS

Component Number	Category	Item Number	NDE Proc	Rev	Exam Type	Exam Date	Results
AF-H-0466A	F-C	F3.50	NDEP613	13	VT-3	4/29/94	PASS
AF-H-0487	F-B	F2.40	NDEP613	13	VT-3	4/29/94	PASS
AF-H-0491	F-B	F2.40	NDEP613	13	VT-3	4/29/94	PASS
AF-H-0653	F-C	F3.40	NDEP613	13	VT-3	4/15/94	PASS
AF-H-0653A	F-C	F3.50	NDEP614	11	VT-4	4/15/94	PASS
CC-H-0457	F-C	F3.40	NDEP613	13	VT-3	3/23/94	PASS
CC-H-0457A	F-C	F3.50	NDEP614	11	VT-4	3/23/94	PASS
CC-H-0501	F-C	F3.40	NDEP613	13	VT-3	2/22/94	PASS
CC-H-0512	F-B	F2.40	NDEP613	13	VT-3	3/24/94	PASS
CC-H-0910	F-C	F3.40	NDEP613	13	VT-3	2/22/94	PASS
CC-H-0918	F-C	F3.40	NDEP613	13	VT-3	2/15/94	PASS
CC-H-0918A	F-C	F3.50	NDEP614	11	VT-4	2/15/94	PASS
CC-H-0919	F-C	F3.40	NDEP613	13	VT-3	2/22/94	PASS
CS-H-0399	F-C	F3.40	NDEP613	13	VT-3	4/30/94	PASS
CS-H-0399A	F-C	F3.50	NDEP614	11	VT-4	4/30/94	PASS
CS-H-3208	F-C	F3.40	NDEP613	13	VT-3	5/08/94	PASS
CS-H-3208A	F-C	F3.50	NDEP614	11	VT-4	5/08/94	PASS
CS-H-3208B	F-C	F3.50	NDEP614	11	VT-4	5/08/94	PASS
CS-H-4418	F-C	F3.40	NDEP613	13	VT-3	4/23/94	PASS
CS-H-4418A	F-C	F3.50	NDEP614	11	VT-4	4/23/94	PASS
CS-H-4418B	F-C	F3.50	NDEP614	11	VT-4	4/23/94	PASS
FW-H-0125	F-C	F3.40	NDEP613	13	VT-3	4/02/94	PASS
FW-H-0125A	F-C	F3.50	NDEP614	11	VT-4	4/02/94	PASS
MS-H-0034	F-C	F3.40	NDEP613	13	VT-3	4/20/94	PASS



Component Number	Category	Item Number	NDE Proc	Rev	Exam Type	Exam Date	Results
MS-H-0034B	F-C	F3.50	NDEP614	11	VT-4	4/20/94	PASS
MS-H-0077	F-B	F2.40	NDEP613	13	VT-3	4/27/94	PASS
MS-H-0197	F-C	F3.40	NDEP613	12	VT-3	1/15/94	PASS
MS-H-0197A	F-C	F3.50	NDEP614	10	VT-4	1/15/94	PASS
MS-H-0197B	F-C	F3.50	NDEP614	10	VT-4	1/15/94	PASS
RC-H-0057	F-C	F3.40	NDEP613	13	VT-3	4/30/94	PASS
RC-H-0231	F-C	F3.40	NDEP613	13	VT-3	4/16/94	PASS
RC-H-0231A	F-C	F3.50	NDEP614	11	VT-4	4/16/94	PASS
RC-H-0236	F-C	F3.40	NDEP613	13	VT-3	4/16/94	PASS
RC-H-0236A	F-C	F3.50	NDEP614	11	VT-4	4/16/94	PASS
RC-H-0242	F-B	F2.40	NDEP613	13	VT-3	4/16/94	PASS
RC-H-0246	F-C	F3.40	NDEP613	13	VT-3	4/09/94	PASS
RC-H-0246A	F-C	F3.50	NDEP614	11	VT-4	4/09/94	PASS
RC-H-0246B	F-C	F3.50	NDEP614	11	VT-4	4/09/94	PASS
RC-H-0665	F-C	F3.40	NDEP613	13	VT-3	4/16/94	PASS
RC-H-0665A	F-C	F3.50	NDEP614	11	VT-4	4/16/94	PASS
RC-H-0666	F-C	F3.40	NDEP613	13	VT-3	4/26/94	PASS
RC-H-0666A	F-C	F3.50	NDEP614	11	VT-4	4/26/94	PASS
RH-H-0169	F-C	F3.40	NDEP613	13	VT-3	3/28/94	PASS
RH-H-0169A	F-C	F3.50	NDEP614	11	VT-4	3/28/94	PASS
RH-H-0169B	F-C	F3.50	NDEP614	11	VT-4	3/28/94	PASS
RH-H-0302	F-C	F3.40	NDEP613	13	VT-3	3/23/94	PASS
RH-H-0302A	F-C	F3.50	NDEP614	11	VT-4	3/23/94	PASS
SG-H-0305B	F-C	F3.10	NDEP613	13	VT-3	4/19/94	PASS

Component Program I.D. - II-SG-001SGB-H-006B



Component Number	Category	Item Number	NDE Proc	Rev	Exam Type	Exam Date	Results
SG-H-0305B	F-C	F3.50	NDEP614	11	VT-4	4/19/94	PASS
SG-H-0306A	F-C	F3.10	NDEP613	13	VT-3	4/19/94	PASS
Component Program		I.D. -	II-SG-001SGA-H-005B				
SG-H-0305B	F-C	F3.50	NDEP614	11	VT-4	4/19/94	PASS
SG-H-0307C	F-C	F3.10	NDEP613	13	VT-3	4/19/94	PASS
Component Program		I.D. -	II-SG-001SGC-H-006A				
SG-H-0307C	F-C	F3.50	NDEP614	11	VT-4	4/19/94	PASS
SG-H-0308A	F-C	F3.10	NDEP613	13	VT-3	4/19/94	PASS
Component Program		I.D. -	II-SG-001SGA-H-006B				
SG-H-0308A	F-C	F3.50	NDEP614	11	VT-4	4/19/94	PASS
SG-H-0309B	F-C	F3.10	NDEP613	13	VT-3	4/19/94	PASS
Component Program		I.D. -	II-SG-001SGB-H-005B				
SG-H-0309B	F-C	F3.50	NDEP614	11	VT-4	4/19/94	PASS
SG-H-0310C	F-C	F3.10	NDEP613	13	VT-3	4/19/94	PASS
Component Program		I.D. -	II-SG-001SGC-H-005A				
SG-H-0310C	F-C	F3.50	NDEP614	11	VT-4	4/19/94	PASS
SG-H-0312B	F-C	F3.10	NDEP613	13	VT-3	4/19/94	PASS
Component Program		I.D. -	II-SG-001SGB-H-006A				
SG-H-0312B	F-C	F3.50	NDEP614	11	VT-4	4/19/94	PASS
SG-H-0313B	F-C	F3.10	NDEP613	13	VT-3	4/19/94	PASS
Component Program		I.D. -	II-SG-001SGB-H-005A				
SG-H-0313B	F-C	F3.50	NDEP614	11	VT-4	4/19/94	PASS
SG-H-0314C	F-C	F3.10	NDEP613	13	VT-3	4/19/94	PASS
Component Program		I.D. -	II-SG-001SGC-H-005B				
SG-H-0314C	F-C	F3.50	NDEP614	11	VT-4	4/19/94	PASS
SG-H-0323A	F-C	F3.10	NDEP613	13	VT-3	4/19/94	PASS
Component Program		I.D. -	II-SG-001SGA-H-005A				
SG-H-0323A	F-C	F3.50	NDEP614	11	VT-4	4/19/94	PASS
SG-H-0325C	F-C	F3.10	NDEP613	13	VT-3	4/19/94	PASS
Component Program		I.D. -	II-SG-001SGC-H-006B				
SG-H-0325C	F-C	F3.50	NDEP614	11	VT-4	4/19/94	PASS
SG-H-0326A	F-C	F3.10	NDEP613	13	VT-3	4/19/94	PASS
Component Program		I.D. -	II-SG-001SGA-H-006A				
SG-H-0326A	F-C	F3.50	NDEP614	11	VT-4	4/19/94	PASS
SI-H-0026	F-C	F3.40	NDEP613	13	VT-3	3/28/94	PASS
SI-H-0026A	F-C	F3.50	NDEP614	11	VT-4	3/28/94	PASS

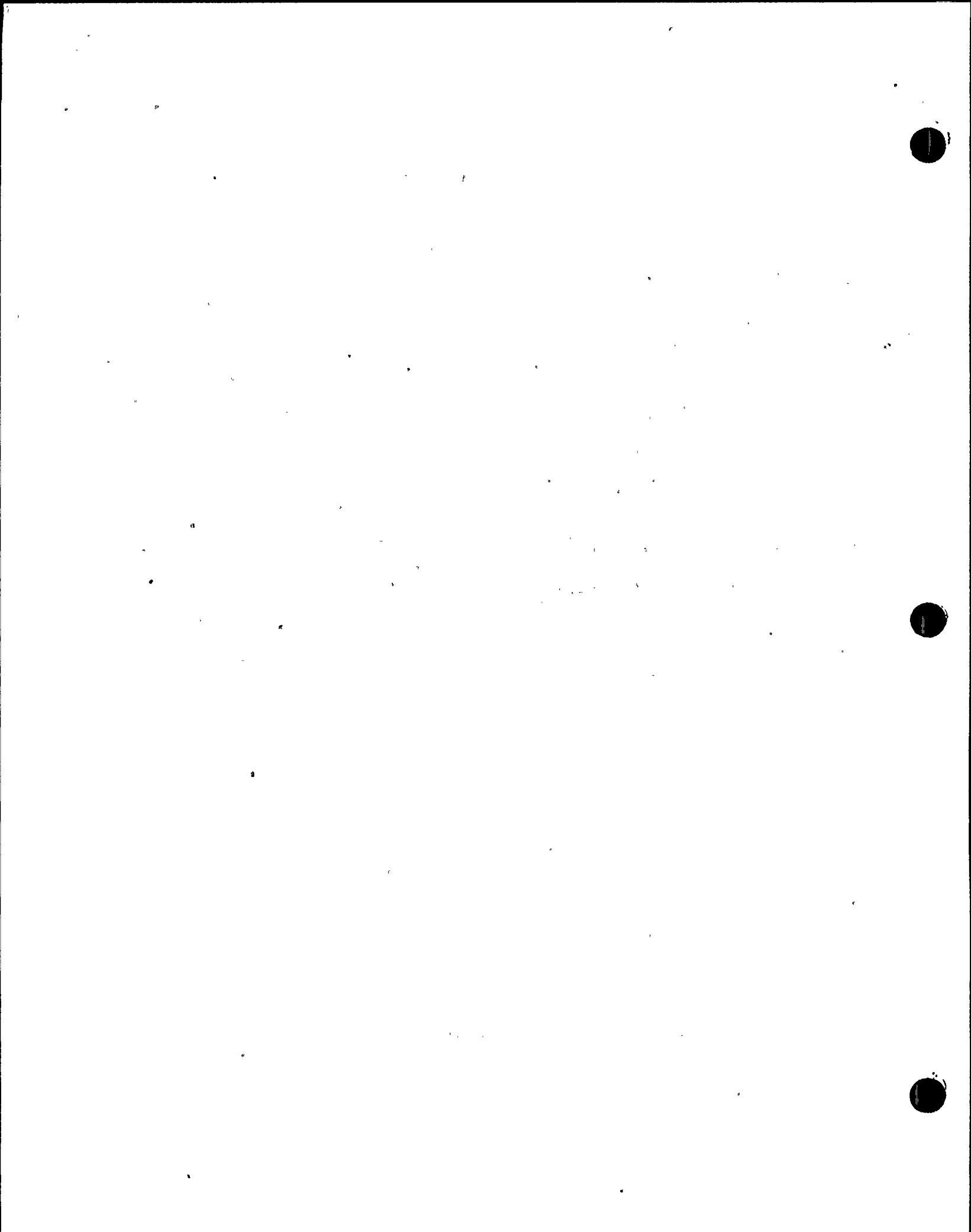
Component Number	Category	Item Number	NDE Proc	Rev	Exam Type	Exam Date	Results
SI-H-0168	F-C	F3.40	NDEP613	13	VT-3	4/16/94	PASS
SI-H-0168A	F-C	F3.50	NDEP614	11	VT-4	4/16/94	PASS
SI-H-0168B	F-C	F3.50	NDEP614	11	VT-4	4/16/94	PASS
SI-H-0185	F-C	F3.40	NDEP613	13	VT-3	4/16/94	PASS
SI-H-0185A	F-C	F3.50	NDEP614	11	VT-4	4/16/94	PASS
SI-H-0185B	F-C	F3.50	NDEP614	11	VT-4	4/16/94	PASS
SI-H-0437	F-C	F3.40	NDEP613	13	VT-3	4/23/94	PASS
SI-H-0437A	F-C	F3.50	NDEP614	11	VT-4	4/23/94	PASS
SW-H-1256	F-B	F2.40	NDEP613	13	VT-3	4/25/94	PASS

SECTION 13

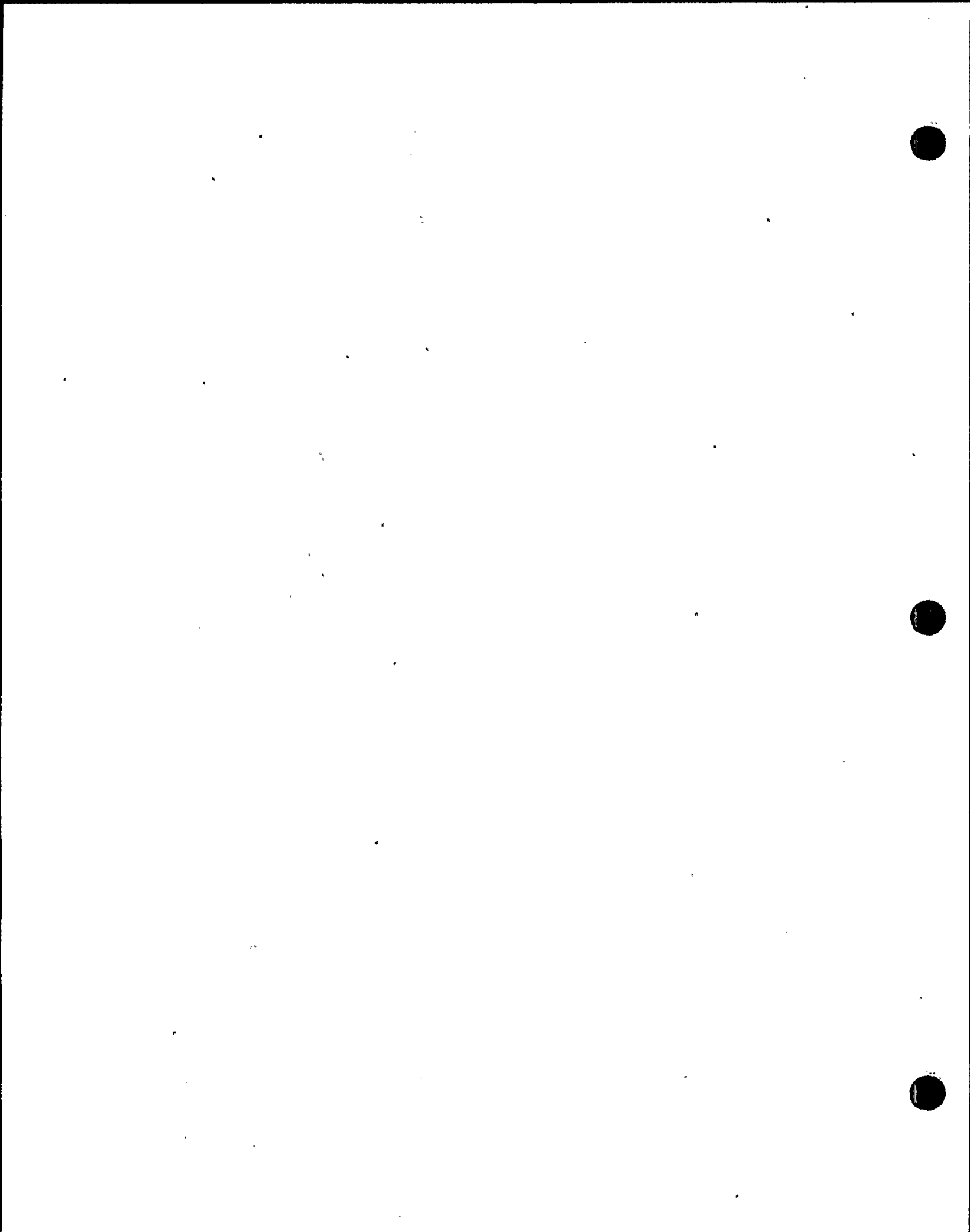
REPAIR AND REPLACEMENT ACTIVITIES

REPAIR AND REPLACEMENT ACTIVITIES
 -STARTUP FROM REFUELING OUTAGE 4 THROUGH REFUELING OUTAGE 5
 DECEMBER 2, 1992 THROUGH MAY 12, 1994

DOCUMENT NO.	DESCRIPTION	R/R No.
WR&A 93-ALQI1 (PCR-0420) WR&A 93-ALSQ1 (PCR-0420)	Demolishes/removes the RCS RTD Bypass Lines. Replaces RTD Bypass lines with direct immersion RTDs and thermowells and installs cap on the crossover leg.	5-RC-1-02 (A Loop) 5-RC-2-02 (B Loop) 5-RC-3-02 (C Loop)
WR&A 94-AGCR1	Installs cap on 1RC-7 valve bonnet to isolate a packing leak.	GLX-RC-V8SN-01
WR&A 94-AADJ1	Replaces old pressurizer safety valve, 1RC-123, allowing it to be tested.	065-RC-R530SN-03
WR&A 93-ANPH1 (PCR-6721)	Replaces various portions of the A Loop of the AFW 6" S/G preheater bypass piping due to FAC concerns.	1-AF-18-01 (Outside Cntmt.) M-10-1-01 (At penetration) 1-AF-1-02 (Inside Cntmt.)
WR&A 93-ANPJ1 (PCR-6721)	Replaces various portions of the C Loop of the AFW 6" S/G preheater bypass piping due to FAC concerns.	1-AF-2-02 (Inside Cntmt.)
WR&A 90-ATQM1 (PCR-5206)	Replaced 2" check Valve 1CS-193 with one without a seal welded bonnet.	HNZ-CS-V138SN-01 (Valve) 1-CS-147-02 (Welds)
WR&A 90-ATQK1 (PCR-5206)	Replaced 2" check Valve 1CS-179 with one without a seal welded bonnet.	HNZ-CS-V136SN-01 (Valve) 1-CS-148-02 (Welds)
WR&A 94-AFYW3	Replaced leaking manway at A-1 location on A S/G.	184-1A-SN-04
WR&A 94-AFYX2	Replaced leaking manway at B-2 location on B S/G.	184-1B-SN-03
WR&A 94-AFXD4	Replaced leaking manway at C-1 location on C S/G.	184-1C-SN-02



DOCUMENT NO.	DESCRIPTION	R/R No.
WR&A,94-AEHA1	Replaced hydraulic snubber due to failure of its functional test.	1-SG-H-309B-01
WR&A 94-AELE1	Replaced two studs and nuts in 1-SW-240.	HDA-SW-B89SA-01



FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 06/24/94
Name
P.O. Box 1551, Raleigh, N. C. 27602-1551 Sheet 1 of 3
Address

2. Plant Shearon Harris Nuclear Power Plant Unit 1
Name
P.O. Box 165, New Hill, N. C. 27562-0165 93-ALQ11 and 93-ALS01
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Carolina Power and Light Company Type Code Symbol Stamp N/A
Name
New Hill, N. C. Authorization No. N/A
Address Expiration Date N/A

4. Identification of System Reactor Coolant System (2005)

5. (a) Applicable Construction Code ASME SECT. III 1974 Edition, W 1976 Addenda, _____ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983

6. Identification of Components Repaired and Replacement Components - See additional components on attached sheets.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)

7. Description of Work Replaced all components associated with RTD bypass loop 1 with direct immersion RTDs and thermowells.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure, 2280 psi Test Temp. Nominal °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Manufacturer's data reports are attached. The components deleted/removed from the plant as a result of the eliminati
Applicable Manufacturer's Data Reports to be attached
of the RTD bypass lines are noted on the attached sheets. Installation of the replacement components is addressed by 93-ALS01.
The noted pressure testing was accomplished by EPT-159, EST-201 AND WR&A 93-ALRA1.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the
ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp None

Certificate of Authorization No. N/A

Expiration Date N/A

Signed [Signature]

Mr ET

Date 7/18, 19 94

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the
State or Province of North Carolina and employed by The Hartford Steam Boiler Inspection and Insurance Company of
One State Street, Hartford, Connecticut 06102 have inspected the components described
in this Owner's Report during the period 12/02/92 to 05/12/94, and state that
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
this inspection.

[Signature]

Inspector's Signature

Commissions NC 1042

National Board, State, Province, and Endorsements

Date July 14 19 94

1. Owner Carolina Power & Light Company; P.O. Box 1551, Raleigh, N. C. 27602-1551

Sheet 2 of 3

2. Plant Shearon Harris Nuclear Power Plant, Unit 1; P.O. Box 165, New Hill, N. C. 27562-0165

Date 06/24/94

3. Work Performed by Carolina Power & Light Co., New Hill, N.C. (Replaced Components)
PCI Energy Services, One Energy Drive, P.O. Box 3000, Lake Bluff, IL, 60044 (Replacement Components)

Repair Organization P.O. No., Job No., etc. 93-ALQ11 (Replaced Components), 93-ALSQ1 (Replacement Components)

4. Identification of System Reactor Coolant System (2005)

5. (a) Applicable Construction Code ASME SECT. III 19 74 Edition, W 1976 Addenda, _____ Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve	KMC ¹	HAQ1-4	29961	1RC-2 1RC-V2SN-1	1980	Replaced	Yes
Valve	KMC	HAQ1-20	29969	1RC-53 1RC-V109SN-1	1980	Replaced	Yes
Valve	WEC ²	03001GH9900002 000S740016	W19726	1RC-37 1RC-V501SN-1	W19726	Replaced	Yes
Valve	KMC	HAQ2-2	35866	1RC-48 1RC-V124SN-1	1983	Replaced	Yes
Valve	WEC	03001GH9900002 000S740001	W19168	1RC-54 1RC-V540SN-1	1979	Replaced	Yes
Valve	KMC	HAQ1-5	29962	1RC-9 1RC-V9SN-1	1980	Replaced	Yes
Valve	KMC	HAQ1-25	29972	1RC-47 1RC-V115SN-1	1980	Replaced	Yes
Hanger		N/A	N/A	1-RC-H-418 ³	1986	Replaced	No
Hanger		N/A	N/A	419	1986	Replaced	No
Hanger		N/A	N/A	421	1986	Replaced	No
Hanger		N/A	N/A	430	1986	Replaced	No
Hanger		N/A	N/A	432	1986	Replaced	No
Hanger		N/A	N/A	434	1986	Replaced	No
Hanger		N/A	N/A	437	1986	Replaced	No
Hanger		N/A	N/A	439	1986	Replaced	No
Hanger		N/A	N/A	442	1986	Replaced	No

¹ - Kerotest Manufacturing Company (KMC)

² - Westinghouse Electric Corporation (WEC)

³ - Unless otherwise noted all hanger numbers begin with the prefix "1-RC-H".

1. Owner Carolina Power & Light Company; P.O. Box 1551, Raleigh, N. C. 27602-1551

Sheet 3 of 3

2. Plant Shearon Harris Nuclear Power Plant, Unit 1; P.O. Box 165, New Hill, N. C. 27562-0165

Date 06/24/94

3. Work Performed by Carolina Power & Light Co., New Hill, N.C. (Replaced Components)
PCI Energy Services, One Energy Drive, P.O. Box 3000, Lake Bluff, Il. 60044 (Replacement Components)

Repair Organization P.O. No., Job No., etc. 93-AL011 (Replaced Components), 93-ALS01 (Replacement Components)

4. Identification of System Reactor Coolant System (2005)

5. (a) Applicable Construction Code ASME SECT. III 19 74 Edition, W 1976 Addenda, _____ Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Hanger		N/A	N/A	1-RC-H-526	1986	Replaced	No
Hanger		N/A	N/A	1-RC-H-527	1986	Replaced	No
Hanger		N/A	N/A	1-RC-H-868	1986	Replaced	No
Loop A 0° HL ¹ T/W ²	Weed Instrument Company, Inc.	N8111	N/A	Part# 740-156-60 PO# 597657	1993	Replacement	No
Loop A 120° HL T/W	Weed Instrument Company, Inc.	N8106	N/A	Part# 740-156-60 PO# 597657	1993	Replacement	No
Loop A 240° HL T/W	Weed Instrument Company, Inc.	N8114	N/A	Part# 740-156-60 PO# 597657	1993	Replacement	No
Loop A CL ³ T/W	Weed Instrument Company, Inc.	N8123	N/A	Part# 740-156-94 PO# 597657	1993	Replacement	No
Pipe Cap Loop A	Tioga Pipe Supply Co. Inc.	N/A	N/A	Part# 739-927-52 PO# 7K7243	1993	Replacement	No

1 - Hot Leg (HL)
 2 - Thermowell (T/W)
 3 - Cold Leg (CL)
 4 - Crossover (Xover)

739-927-52
7K7243



PIPE SUPPLY COMPANY INC.
2450 WHEATSHEAF LANE, PHILADELPHIA, PA 19137

CUSTOMER PURCHASE ORDER CERTIFICATE OF CONFORMANCE

Description	Applies		Description	Applies	
	Yes	No		Yes	No
Material Manufacturers Certified Material Test Report (CMTR)	X		Report of treatments, examinations or tests not performed		X
Material Manufacturers Supplemental Certifications for Examinations and/or Tests	X		Manufacturers or subcontractors Radiographic Reader's Report		X
Material Manufacturers Subcontractors CMTR		X	Manufacturers or subcontractors Radiographic Film		X
Tioga Pipe Supply Co., Inc. Subcontractors CMTR for NDE		X	Partial Data Reports or other records for weld w/filler metal pipe		X
Tioga Pipe Supply Co., Inc. Subcontractors CMTR for Destructive Testing		X	Tioga Pipe Supply Co., Inc. Certificate of Analyses and Tests		X

Material Ordered: 3" SCH 160 B.W. CAP - 4 PCS

- 1) ASME CODE SECTION II, 1974 EDITION WINTER 1976 ADDENDA FOR ASME SA403 WP304 MATERIALS.
- 2) ASME CODE SECTION III 1974 EDITION WINTER 1976 ADDENDA ARTICLES NB-2000 AND NCA-3800 FOR CLASS 1 MATERIALS.
- 3) CP&L SPEC 065 REV. 1

Traceability:
P8053

Manufacturer:
CUSTOM ALLOY CORPORATION

Tioga Pipe Supply Co., Inc. affirms that the contents of their attached reports is correct and accurate and that this material was processed by Tioga Pipe Supply Co., Inc. in compliance with their Quality Systems Program. The material supplied conforms to the purchase order requirements.
Quality System Manual Revision 3 Dated 8-28-91 Category A

REFERENCE INFORMATION

Customer P.O. # 7K7243CJ
Item # 01

Tioga Pipe Supply Co., Inc.
ASME Certificate of Authorization
(Materials) - Number QSC- 467
Expiration Date - 11-5-94

Tioga S.O. # 808486P
Item # 1

Louise Luman 12-28-93
Quality Assurance Date

0144
1494





Heat Code: F8053 ✓

CUSTOM ALLOY CORPORATION

3 Washington Ave. • High Bridge, N.J. 08829

PRODUCT DESCRIPTION	CUSTOMER DATA
Item <u>Cap</u>	Name <u>Tioga Pipe Supply Co., Inc.</u>
Size <u>3 NRS</u>	P.O. No. <u>P 56369 N</u>
Wall <u>Schedule 160</u>	Tag No. <u>7K7243CJ ✓</u>
Grade <u>WP304 Seamless</u>	Job No. <u>N-2196-1</u>

Specifications: ASME SA403 WP304 Seamless Section III Class 1; NCA3800, 1974 Edition through Winter 1976 Addenda; 10CFR50 Appendix B; CP&L 065 Rev. 1; TPS A1, Rev. 0 Paragraphs 1 - 15 and 19D

CHEMICAL ANALYSIS										
	C	Mn	P	S	Si	Cr	Ni	Mo	Cb	N
Ladle	.025	1.55	.030	.003	.60	18.14	9.10			.085
* Check	.024	1.56	.027	.011	.62	18.70	8.90			.08

MECHANICAL PROPERTIES						
Yield Strength .2% Offset	Tensile Strength PSI	Elong. in 2" %4D	Red of Area %		Starting Material Control No.	Starting Material conforms to the chemical and tensile requirements of
41709 ✓	88191 ✓	54.3 ✓			B1647	Seamless Plate

MILL HEAT NO: 223874 Washington Steel

REMARKS: Material solution annealed at 1950 Degrees F (±25 Degrees F), held for one hour per inch (15 minutes minimum), and rapidly quenched in circulating water to below 800 Degrees F in less than three minutes.

Corrosion Testing performed in accordance with ASTM A262 Practice E - Satisfactory
100% Liquid Penetrant Inspected in accordance with Procedure Number 87-PT-2, Rev. 1
Satisfactory - Report Attached

CAC
 Q.A. APPROVED
 DATE: 12/28/93
 Q.A. TECHNICIAN

This material was produced in accordance with Custom Alloy Corporation Quality Assurance Program, Rev. 5, dated 9/1/92 which was audited and qualified by Tioga Pipe Supply Co., Inc. as conforming to the requirements of ASME Section III, Subarticle NCA-3800.

No welding or weld repair has been performed on this material.

I certify the above product has been manufactured in accordance with all applicable parts of the above order and specifications.

*Results of upgrading in accordance with NCA3867.4(e)

12/28/93

The provisions of 10CFR21 apply to this order
Frederick N. Trach
Director of Quality

Frederick N. Trach
 CUSTOM ALLOY CORPORATION
 Authorized Signature

1/14/94



Custom Alloy Corporation Route 513 Calton, NJ 07830 • Telephone 201-832-7111 • TWX: 510-235-3382 • TELEX: 13-6456

LIQUID PENETRANT TEST REPORT

CAC No: B11647
Heat No Code: F8053

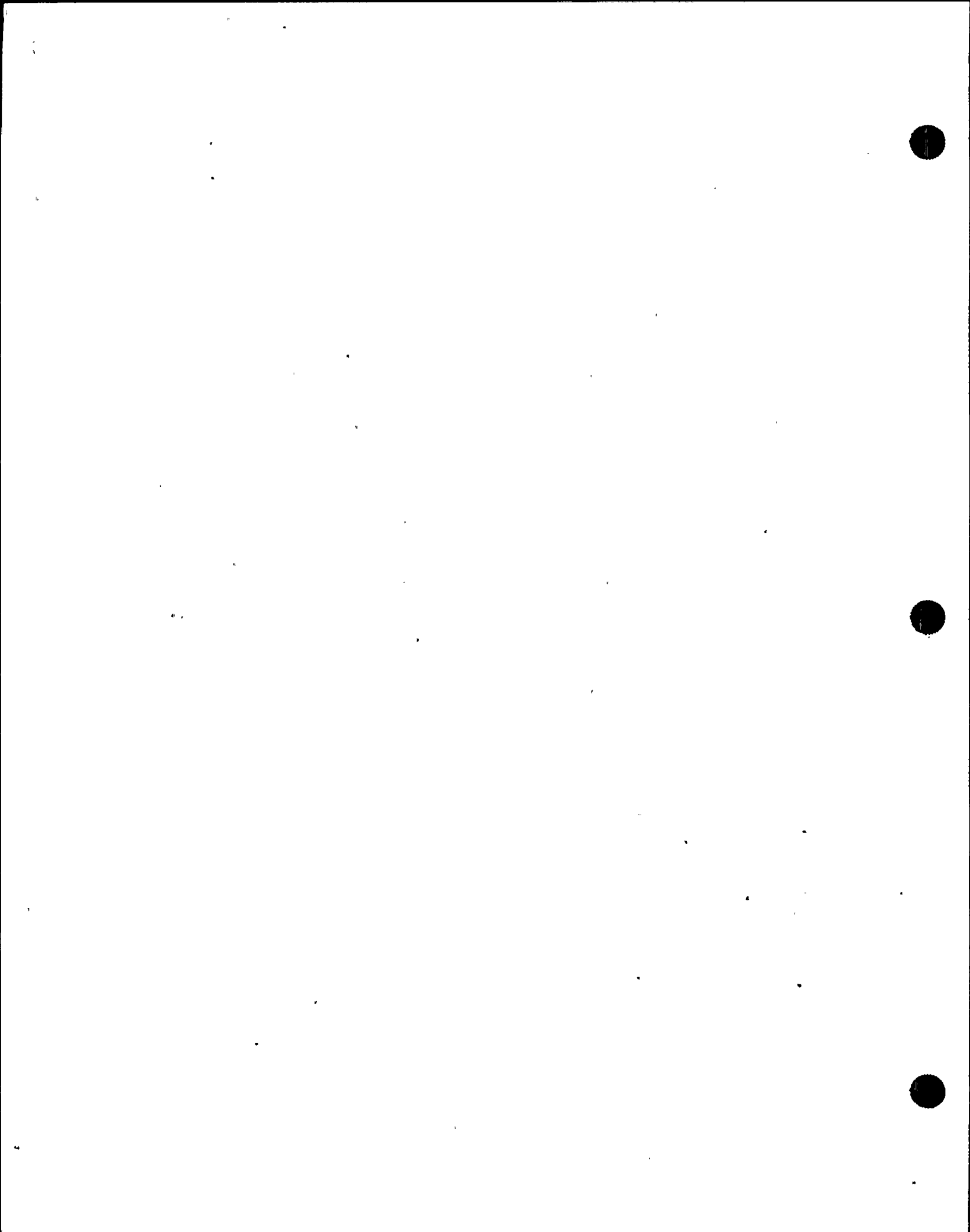
Customer: <u>TIOGA PIPE</u>	Inspector/Level II	Date:	
Job No: <u>CN 2196-1</u>	Alloy: <u>WP 304</u>	Examiner/Level III: <u>[Signature]</u>	Date: <u>12-23-93</u>
Item: <u>CAP 2.1 CL.</u>	Size: <u>3" S1160</u>	Qty. Inspected: <u>4</u>	Qty. Accepted: <u>4</u>

Procedure: 87-PT-2, REV. 1 Method: WATER WASHABLE

Test Material Mfg: <u>TURCO PRODUCTS</u>			
Penetrant	Batch: <u>XC 305H</u>	Sulphur: <u>10 ppm</u>	Haldes: <u>16 ppm</u>
Remover	<u>NIA</u>	<u>NIA</u>	<u>NIA</u>
Developer	<u>XL 157M</u>	<u>129 ppm</u>	<u>10 ppm</u>

PC #	ACC	REJ.	S/N	ACC	REJ	COMMENTS
1	X					
2	X					
3	X					
4	X					

1.4.94



WEED INSTRUMENT CO. INC.

PAGE _____ OF _____

CERTIFICATE OF CONFORMANCE

CERT. NO. 3519

740-156-60
597657

4
740-156-94
597657

WEED S.O. 31855.1.1, 3.1 & 4.1
CUSTOMER CAROLINA POWER AND LIGHT COMPANY
P.O. 597657M-CC
ITEM NO. 1, 3 & 4
ITEM ITEM 1: MODEL N9004E-2B RTD ASSEMBLY WITH BAYONET STYLE CONNECTOR
ITEM 3: FAST TIME RESPONSE ASME SEC III, CLASS 1 THERMOWELL FOR USE IN RCS HOT LEG SCOOP
ITEM 4: FAST TIME RESPONSE ASME SEC III, CLASS 1 THERMOWELL FOR USE IN RCS COLD LEG

WEED DRWG. ITEM 1 DRAWING NO.: 0337-318355-001 REV. 0
ITEM 3 DRAWING NO.: 0417-318355-002 REV. 0
ITEM 4 DRAWING NO.: 0417-318355-003 REV. 0

QUANTITY ITEM 1: 14 ASSEMBLIES
ITEM 3: 11 THERMOWELLS
ITEM 4: 4 THERMOWELLS

IDENTITY ITEM 1 SERIAL NO.'S: N7910, N7911, N7914, N7918, N7919, N7921, N7923, N7929, N7930, N7931, N7933, N7934, N7935 & N7938.
ITEM 3 SERIAL NO.'S: N8105, N8106, N8107, N8108, N8109, N8110, N8111, N8112, N8113, N8114 & N8115.
ITEM 4 SERIAL NO.'S: N8120, N8121, N8122 & N8123.

SHIP DATE 2-16-94

APPL. SPEC. PER PURCHASE ORDER, EXCEPT AS RESOLVED PER LETTER DATED 2-16-94 FROM BILLY O'NEIL OF CP&L.

REMARKS. ITEM(S) SUPPLIED IN COMPLIANCE WITH WEED QA/QC REGULATION 100-1 REV. 2, ANSI N45.2 AND 10CFR50 APPENDIX B. ITEM(S) QUALIFIED TO IEEE 323-1974/1983 AND 344-1975 AND NUREG 0588 PER SWRI QUALIFICATION TEST REPORT 06-8680-003 REV. 1 AND EGS TEST REPORT PEI-TR-880701-04.




CERTIFICATE OF CONFORMANCE

CERT. NO. 3519 (CONTINUED)

I HEREBY CERTIFY THAT THE ITEMS LISTED ABOVE HAVE BEEN MANUFACTURED AND TESTED IN ACCORDANCE WITH THE PROCEDURE APPROVED BY THE CONTRACTING AGENCY AND ARE IN CONFORMANCE WITH ALL THE REQUIREMENTS OF THE APPLICABLE SPECIFICATION SHOWN ABOVE. ALL AVAILABLE TEST REPORTS AND RECORDS ARE ON FILE FOR EXAMINATION TO SUBSTANTIATE CONFORMANCE WITH APPLICABLE CALIBRATION REQUIREMENTS. IT IS FURTHER CERTIFIED THAT TO THE BEST OF MY KNOWLEDGE ANY ATTACHED DATA IS TRUE AND CORRECT.

WEED INSTRUMENT CO., INC.
P.O. BOX 300, 707 JEFFREY WAY
ROUND ROCK, TEXAS 78680
(512) 255-7043

APPROVED BY: 
NAME: RAYYANEH OSKOUI
TITLE: QUALITY SYSTEMS MGR.
DATE: 2-17-94

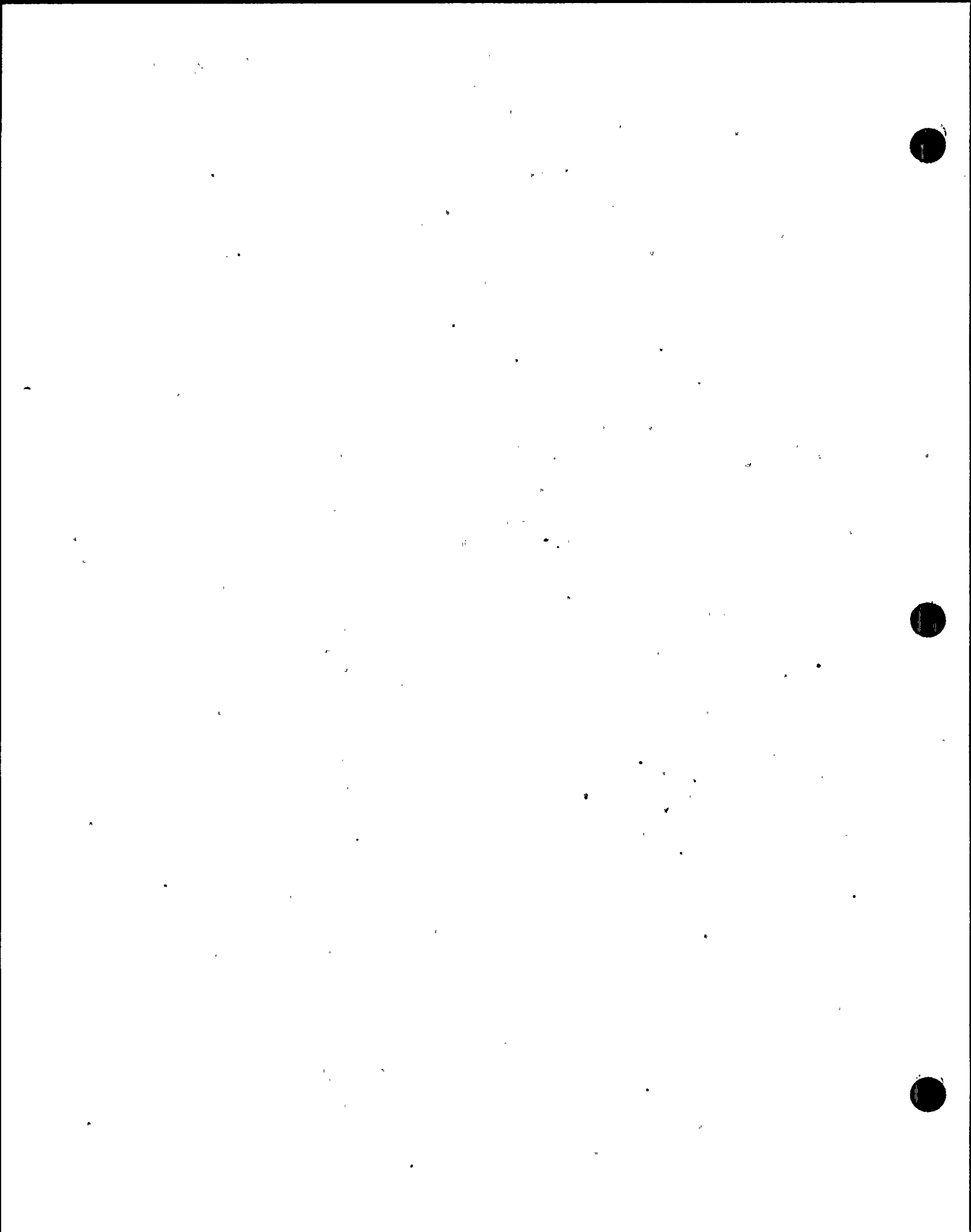
1. INSTALLED AND CERTIFIED BY CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
2. INSTALLED FOR CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
3. LOCATION OF INSTALLATION SHEARON HARRIS NUCLEAR POWER PLANT, NEW HILL, N.C.
4. SYSTEM IDENTIFICATION. REACTOR COOLANT RC.

(SYSTEM NAME) _____ (MFR SERIAL NO)
SEE SUPPLEMENT #7 - 1 PAGE N/A 55 1986
(DRAWING NUMBER) (CRN) (NB NO) (YEAR INST)

NUCLEAR COMPONENTS AND APPURTENANCES INSTALLED:

(A) COMPONENT OR APPURTENANCE	(B) NAME OF CERT HOLDER	(C) SERIAL NO	(D) CRN	(E) NATL BC NO	(F) YR BUILT
1-RC-P-00525-SN -1	FCC	5909451	N/A	6548	1982
1-RC-P-00526-SN -1	FCC	5909452	N/A	6566	1982
1-RC-P-00527-SN -1	CVI	7310-95282-204-X-1	N/A	584	1976
1-RC-P-00528-SN -1	CVI	7310-59282-204-X-2	N/A	589	1976
1-RC-P-00529-SN -1	CVI	7310-59282-204-X-3	N/A	590	1976
1-RC-R-00528-SN -1	CV&G	N56964-00-0050	N/A	222	1976
1-RC-R-00529-SN -1	CV&G	N56964-00-0088	N/A	374	1977
1-RC-R-00530-SN -1	CV&G	N56964-00-0052	N/A	224	1976
1-RC-V-00002-SN -1	KMC	HAQ1-4	N/A	29961	1980
1-RC-V-00007-SN -1	KMC	HAQ1-6	N/A	29720	1980
1-RC-V-00008-SN -1	KMC	HAQ1-14	N/A	29721	1980
1-RC-V-00009-SN -1	KMC	HAQ1-5	N/A	29962	1980
1-RC-V-00011-SN -1	KMC	HAQ1-8	N/A	29963	1980
1-RC-V-00016-SN -1	KMC	HAQ1-16	N/A	29722	1980
1-RC-V-00017-SN -1	KMC	HAQ1-24	N/A	29723	1980
1-RC-V-00019-SN -1	KMC	HAQ1-11	N/A	29964	1980
1-RC-V-00022-SN -1	KMC	HAQ1-13	N/A	29965	1980
1-RC-V-00028-SN -1	KMC	HAQ1-15	N/A	29966	1980
1-RC-V-00029-SN -1	KMC	HAQ1-17	N/A	29967	1980
1-RC-V-00030-SN -1	KMC	HAQ1-18	N/A	29968	1980
1-RC-V-00031-SN -1	KMC	HAJ2-6	N/A	28253	1980
1-RC-V-00109-SN -1	KMC	HAQ1-20	N/A	29969	1980
1-RC-V-00110-SN -1	KMC	HAQ1-21	N/A	29970	1980
1-RC-V-00111-SN -1	KMC	HAQ1-22	N/A	29971	1980
1-RC-V-00115-SN -1	KMC	HAQ1-25	N/A	29972	1980
1-RC-V-00116-SN -1	KMC	HAQ1-7	N/A	30905	1980
1-RC-V-00117-SN -1	KMC	HAQ1-19	N/A	30906	1980
1-RC-V-00124-SN -1	KMC	HAQ2-2	N/A	35866	1983
1-RC-V-00125-SN -1	KMC	HAQ2-4	N/A	35867	1983
1-RC-V-00126-SN -1	KMC	HAQ2-5	N/A	35868	1983
1-RC-V-00500-SN -1	WEC	03001GH9900002000S740014	N/A	W19724	1979
1-RC-V-00501-SN -1	WEC	03001GH9900002000S740016	N/A	W19726	1979
1-RC-V-00502-SN -1	WEC	03001GH9900002000S740017	N/A	W19727	1979
1-RC-V-00503-SN -1	WEC	03001GH9900002000S740013	N/A	W19196	1979
1-RC-V-00526-SN -1	WEC	03003GM99FNHO2GOOS740001	N/A	W26400	1983
1-RC-V-00527-SN -1	WEC	03003GM99FNHO2GOOS740002	N/A	W26401	1983
1-RC-V-00528-SN -1	WEC	03003GM99FNHO2GOOS740003	N/A	W26402	1983
1-RC-V-00540-SN -1	WEC	03001GH9900002000S740001	N/A	W19168	1979
1-RC-V-00541-SN -1	WEC	03001GH9900002000S740012	N/A	W19195	1979
1-RC-V-00542-SN -1	WEC	03001GH9900002000S740015	N/A	W19725	1979

CERTIFICATE HOLDER REP. *M. D. Simon*
ANI. *ASDA*



FORM NPV-1: N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PURIPS ON VALVES

As Required by the Provisions of the ASME Code, Section III, Div. 1

Sheet 1 of 2

1. Manufactured by Kroyolac Manufacturing Corp., Pittsburgh, PA (HU-68007)
 (Name and Address of N Certificate Holder)
 2. Manufactured for Electric Services, Inc., New York, NY
 (Name and Address of Purchaser or Owner)
 3. Location of Installation Brooklyn Bridge Station Plant, New York, NY
 (Name and Address)
 4. Pump or Valve Valve Nominal Inlet Size 2" Outlet Size 2"
 (inch) (inch)

	(a) Model No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	Globe	HAQ1-11 ✓	N/A	SH-D-9909X02E/16-(1)	1	29967	1980
(2)	Globe	HAQ1-5 ✓	N/A	SH-D-9909X02E/16-(1)	1	29967	1980
(3)	Globe	HAQ1-8 ✓	N/A	SH-D-9909X02E/16-(1)	1	29967	1980
(4)	Globe	HAQ1-11 ✓	N/A	SH-D-9909X02E/16-(1)	1	29967	1980
(5)	Globe	HAQ1-13 ✓	N/A	SH-D-9909X02E/16-(1)	1	29965	1980
(6)	Globe	HAQ1-15 ✓	N/A	SH-D-9909X02E/16-(1)	1	29966	1980
(7)	Globe	HAQ1-17 ✓	N/A	SH-D-9909X02E/16-(1)	1	29967	1980
(8)	Globe	HAQ1-18 ✓	N/A	SH-D-9909X02E/16-(1)	1	29968	1980
(9)	Globe	HAQ1-20 ✓	N/A	SH-D-9909X02E/16-(1)	1	29969	1980
(10)	Globe	HAQ1-21 ✓	N/A	SH-D-9909X02E/16-(1)	1	29970	1980

5. Station Valve for WF1, WF3 Fluids
 (Brief description of service for which equipment was designed)

6. Design Conditions 2485 psi 650 °F or Valve Pressure Class 1513# (1)

7. Cold Working Pressure 3051 psi at 100°F.

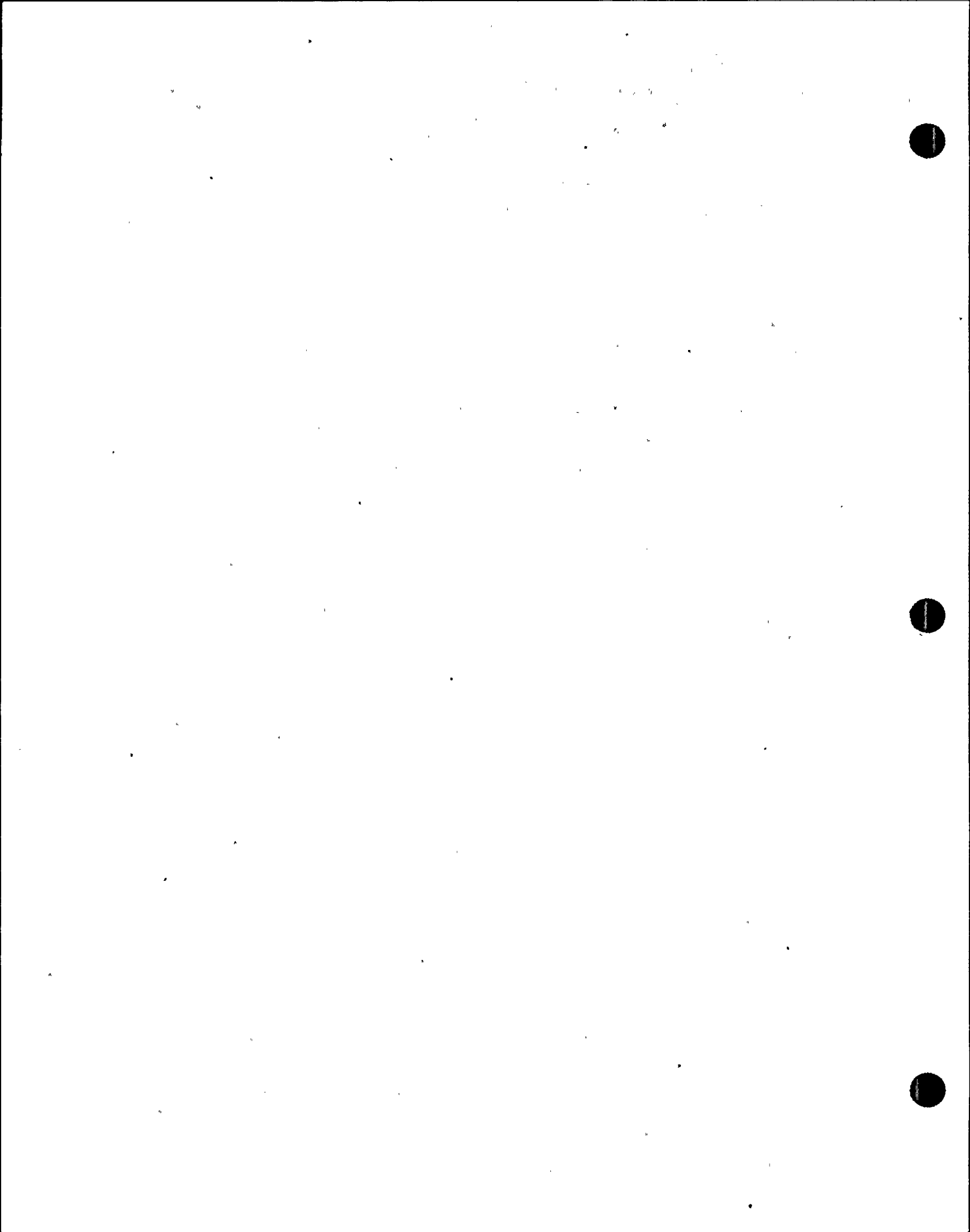
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
Body	HC-P-1050LE/16-1-(1)	SA182, F316	Mat'l Code HAQ
Yoke	M/P-9910-31E-(1)	SA195 ✓	Mat'l Code ACAP

REVIEWED BY [Signature]
 ISSUED FOR THE ASME CODE

(1) For manually operated valves only.

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) they are 8 1/2" x 11", (2) information in items 1, 2 and 3 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.



Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
(d) Other Parts			
9909-9-(1)Z	SA179, Type 316	Carpenter	Nat'l Code JAW
9909-3-(1)Z	SA179, Type 316	Joslyn	Nat'l Code MAE

9. Hydrostatic test 5447 psi. Disk Differential test pressure 3631 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974

Addenda Summary 1976 (Date), Code Case No. N/A, Date June 4, 1980

Signed Kerotest by [Signature]
(N Certificate Holder)

Our ASME Certificate of Authorization No. 1902 to use the N symbol expires 10/31/80
(N) (Date)

CERTIFICATION OF DESIGN

Design information on file at Kerotest Manufacturing Corp.

Stress analysis report (Class 1 only) on file at Kerotest Manufacturing Corp.

Design specifications certified by (1) A. C. Chen
 PE State DC Reg. No. 6194

Stress analysis certified by (1) R. G. Visalli
 PE State PA Reg. No. 19068-E

(1) Signature not required. List name only.

REVIEWED

BY [Signature]

ASASCO ENGINEERING

ASASCO VQA REP.

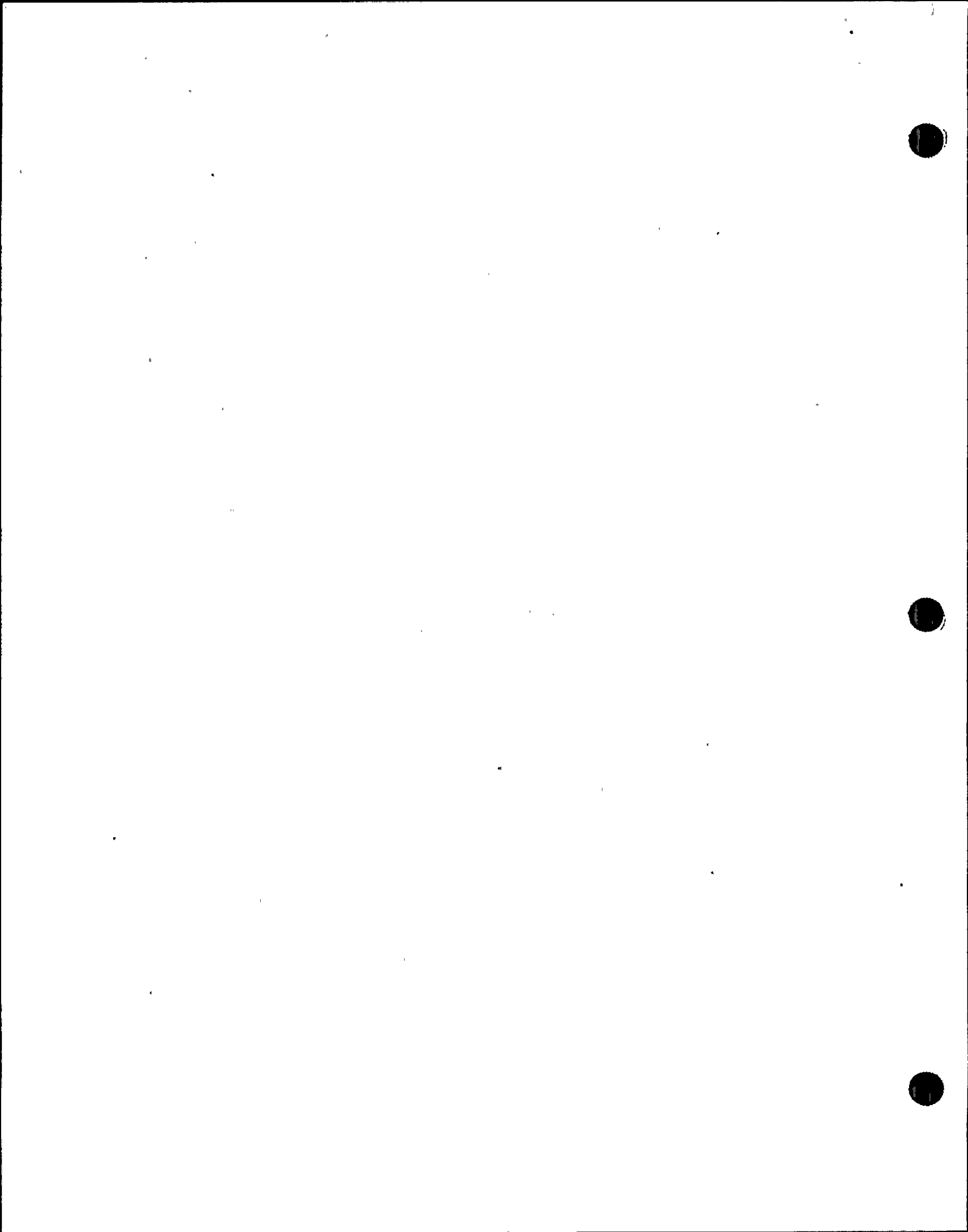
CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by The Hartford Steam Boiler of Hartford, Connecticut have inspected the pump, or valve, described in this Data Report on 6/6/80, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date: 6/6/80
[Signature] (Inspector) Commissions PA 110 118738
(State, Nat., State, Prov. and Loc.)

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SUPPLEMENT SHEET
FORM NPV-1

- Manufactured by Kerotest Manufacturing Corp. NU-68607
- Manufactured for Carolina Power & Light Co.

Manufacturers' Serial No.	Drawing No.	Class	Nat'l Board No.
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(11) HAQ1-22 ✓	SH-D-9909X02BW16-(1)	1	29971
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(12) HAQ1-25	SH-D-9909X02BW16-(1)	1	29972
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(13) <u>RISK 6/6/50</u>			
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(14)			
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(15)			
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(16)			
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(17)			
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(23)			
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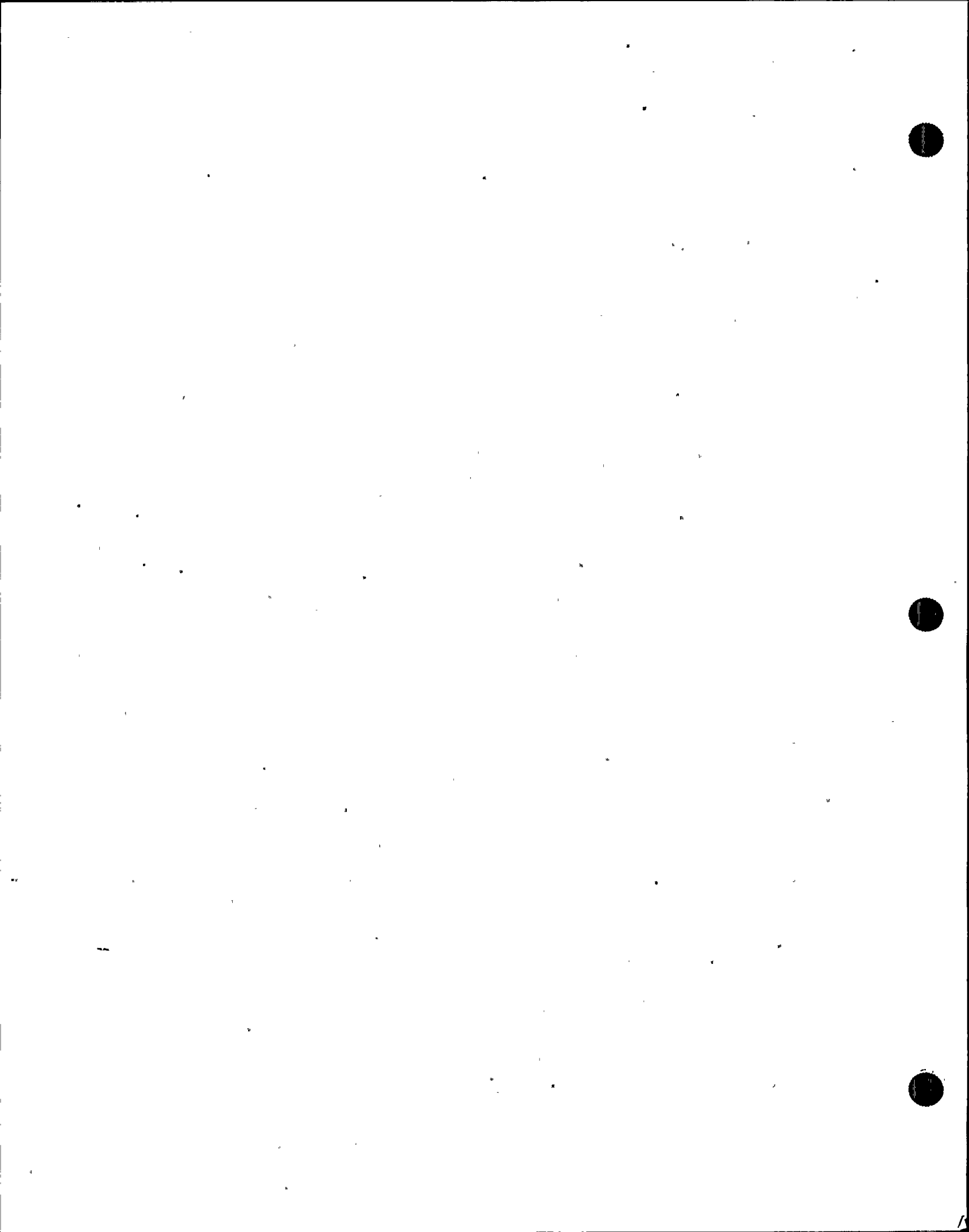
(24)			
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(25)			
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5. (Service) Station Valve for WFL, WFP Fluids

ALL WORK	<input checked="" type="checkbox"/>
TRASCO ENGINEERING	<input type="checkbox"/>
REVIEW VALVE SET	<input type="checkbox"/>
DATE <u>7/21/50</u>	<input type="checkbox"/>
TRASCO VCA #	<input type="checkbox"/>

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FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*
 As Required by the Provisions of the ASME Code, Section III, Div. 1 Sht. 1 of 1

1. Manufactured by Kerotest Manufacturing Corp., Pittsburgh, PA (NU-68607)
(Name and Address of N Certificate Holder)
 2. Manufactured for Enasco Services, Inc., New York, NY
(Name and Address of Purchaser or Owner)
 3. Location of Installation Sheraton Harris Nuclear Plant, New Hill, NC
(Name and Address)
 4. Pump or Valve Valve Nominal Inlet Size 2" Outlet Size 2"
(inch) (inch)

(a) Model No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1) Globe	HAQ2-2 ✓	N/A	SH-D-9909X02BW16-(1)	1	35866	1983
(2) Globe	HAQ2-4 ✓	N/A	SH-D-9909X02BW16-(1)	1	35867	1983
(3) Globe	HAQ2-5 ✓	N/A	SH-D-9909X02BW16-(1)	1	35868	1983
(4)						
(5)						
(6)						
(7)						
(8)						
(9)						
(10)						

5. Station Valves for WF1, WF3 Fluids
(Brief description of service for which equipment was designed)

6. Design Conditions 2485 psi 650 °F or Valve Pressure Class 1513# (1)
(Pressure) (Temperature)
 7. Cold Working Pressure 3631 psi at 100°F.
 8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
Body - HAQ	SA182, F316	McWilliams	
Yoke - JSF	SA105	McWilliams	

DESIGNED BY [Signature]
 DRAWN BY [Signature]
 CHECKED BY [Signature]
 DATE 10-25-85
 PROJECT NO. [Blank]
 ASME U.S.A. 210

(1) For manually operated valves only.
 * Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

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Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Boiling			
(d) Other Parts			
Disc - AHG	SA479, Type 316	Joslyn	
Bonnet - FAL	SA479, Type 316	Joslyn	

9. Hydrostatic test 5500 psi. Disk Differential test pressure 3700 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974
 Addenda Summer 1976 (Date); Code Case No. N/A; Date October 3, 1983
 Signed Kerotest Manufacturing Corp. by [Signature]
 (N Certificate Holder)
 Our ASME Certificate of Authorization No. 1902 to use the N symbol expires 4/25/86
 (N) (Date)

CERTIFICATION OF DESIGN

Design information on file at Kerotest Manufacturing Corp.
 Stress analysis report (Class 1 only) on file at Kerotest Manufacturing Corp.
 Design specifications certified by (1) A. C. Chen
 PE State NC Reg. No. 6494
 Stress analysis certified by (1) S. J. Caroleo
 PE State PA Reg. No. 17144-E
 (1) Signature not required. List name only.

REVIEWED BY [Signature]
 DATE 10-18-83
 REVIEWED BY [Signature]
 DATE 10-18-83

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by The Hartford Steam Boiler I&I Co. of Hartford, Connecticut have inspected the pump, or valve, described in this Data Report on 10-4 19 83, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.
 By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date 10-4 19 83
[Signature] (Inspector) Commissions NC 7912H
 (Nat'l Bd., State, Prov. and No.)

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FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Westinghouse Electro-Mechanical Division S/O- 1H004
Cheswick Avenue, Cheswick, Pa. 15024 Order No. RA-23013-AR6-AR1
(Name & Address of Manufacturer)
2. Manufactured for Westinghouse PWR Systems Division
Nuclear Center Box 355, Pittsburgh, Pa. 15230 Order No. 546-NCJ-162148-BN
(Name and Address)
3. Owner Carolina Power & Light Co. - Bonsal, North Carolina
4. Location of Plant Shearon Harris No. 1 - Bonsal, North Carolina
5. Pump or Valve Identification 03001GH9900002000S740016
Valve I.D. - 3688
3" - 2035 Manual Operated Gate Valve
(Brief description of service for which equipment was designed)

(a) Drawing No. 8377D97 Prepared by Westinghouse Electric Corporation

Ref. Dwg. 8378D41

(b) National Board No. W19726

6. Design Conditions 2500 psi 650 °F.
(Pressure) (Temperature)

7. The material, design, construction, and workmanship complies with ASME Code Section III, Class I

Edition 1974, Addenda Date S74, Case No. 1553-1, 1649

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
Body	S/N 6791	SA182 GR F304 Stl Imp & Frq Co	Ht. No. 75434-A2
Bonnet	S/N 6782	SA182 GR F304 Stl Imp & Frq Co	Ht. No. 75429-A1
Disc	S/N 5450	SA182 GR F304 Stl Imp & Frq Co	Ht. No. 74667-A1
Stem	S/N 3675	SA564 GR 630 Arc Mfg Co.	Ht. No. 75858

ASME
SECTION III

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) also is 8 1/2" x 11", (2) information in items, 1, 2, 5a and 5b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

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5/13/79

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Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Main Flange Studs	SA453 GR 660	Plainville Mfg Co	Ht. No. 15156
Main Flange Nuts	SA194 GR 6	Vitco Nuclear	Ht. No. 75368
(d) Other Parts			

8. Hydrostatic test 6284 psi.

CERTIFICATION OF DESIGN

Design information on file at Westinghouse Electro-Mechanical Division
 Stress analysis report on file at Westinghouse Electro-Mechanical Division
 Design specifications certified by Henry P. Leonard (1) Prof. Eng. State Pa. Reg. No. 23938-E
 Stress analysis report certified by Harry E. Eminger (1) Prof. Eng. State Pa. Reg. No. 10729-E
 (1) Signature not required. List name only.

We certify that the statements made in this report are correct.

Date 4-16 19 79 Signed Westinghouse Electric
Electro-Mechanical Div. By Mike Bonifis
 (Manufacturer)

Certificate of Authorization No. 1385 expires May 14, 1979

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of Pennsylvania and employed by Lumbermens Mutual Casualty Co. of Long Grove, Illinois have inspected the equipment described in this Data Report on 4-17 19 79, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.
 By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-17 19 79

Paul Lanni
 (Inspector) Commissions NB4925 Pa 1760
 (National Board, State, Province and No.)

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FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Westinghouse Electro-Mechanical Division S/O-1H004
Cheswick Avenue, Cheswick, Pa. 15024 Order No. RA-23013-AR6-AR1
(Name & Address of Manufacturer)
2. Manufactured for Westinghouse PWR Systems Division
Nuclear Center Box 355, Pittsburgh, Pa. 15230 Order No. 546-NCJ-162148-BN
(Name and Address)
3. Owner Carolina Power & Light Co. - Bonsal, North Carolina
4. Location of Plant Shearon Harris No. 1 - Bonsal, North Carolina
5. Pump or Valve Identification 03001GH9900002000S740001
Valve I.D.-3G88
3" - 2035 Manual Operated Gate Valve
(Brief description of service for which equipment was designed)

- (a) Drawing No. 8377D97 Prepared by Westinghouse Electric Corporation
Ref. Dwg. 8378D41
- (b) National Board No. W19168
6. Design Conditions 2500 psi 650 °F
(Pressure) (Temperature)
7. The material, design, construction, and workmanship complies with ASME Code Section III. Class I
Edition 1974, Addenda Date S74, Case No. 1553-1, 1649

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
Body	S/N 6723	SA182 GRF304	Stl. Imp. & Frg. Co. Ht. No. 75434-A2
Bonnet	S/N 6805	SA182 GRF304	Stl. Imp. & Frg. Co. Ht. No. 75429-A1
Disc	S/N 5536	SA182 GRF304	Stl. Imp. & Frg. Co. Ht. No. 74667-A1
Stem	S/N 3682	SA564 GR630	Arc Mfg. Co. Ht. No. 75858

ASME
SECTION III

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 1/2" x 11", (2) information in items 1, 2, 5a and 5b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

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FORM NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Main Flange Studs	SA453 GR 660	Plainville Mfg. Co.	Ht. No. 15156
Main Flange Nuts	SA194 GR 6	Witco Nuclear	Ht. No. 75368
(d) Other Parts			

8. Hydrostatic test 6284 psi.

CERTIFICATION OF DESIGN

Design information on file at Westinghouse Electro-Mechanical Division
 Stress analysis report on file at Westinghouse Electro-Mechanical Division
 Design specifications certified by Henry P. Leonard (1) Prof. Eng. State PA Reg. No. 23938-B
 Stress analysis report certified by Harry E. Eminger (1) Prof. Eng. State PA Reg. No. 10729-B
 (1) Signature not required. List name only.

We certify that the statements made in this report are correct.

Date 3/21/ 1979 Signed Westinghouse Electric
Electro-Mechanical Div. By [Signature]
 (Manufacturer)

Certificate of Authorization No. 1385 expires May 14, 1979

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of Pennsylvania and employed by Lumbermens Mutual Casualty Co. of Long Grove, Illinois have inspected the equipment described in this Data Report on MAR 13 1979

and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date MAR 22 1979

[Signature: OR Miller] Commissions NB 4349 PA 1784
 (Inspector) (National Board, State, Province and No.)

U 4 / 0 1 2 3 4 5 6 7 8 9 0 1 2 3

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 06/27/94
Name
P.O. Box 1551, Raleigh, N. C. 27602-1551 Sheet 1 of 3
Address

2. Plant Shearon Harris Nuclear Power Plant Unit 1
Name
P.O. Box 165, New Hill, N. C. 27562-0165 93-AL011 and 93-ALS01
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Carolina Power and Light Company Type Code Symbol Stamp N/A
Name
New Hill, N. C. Authorization No. N/A
Address Expiration Date N/A

4. Identification of System Reactor Coolant System (2005)

5. (a) Applicable Construction Code ASME SECT. III 1974 Edition, W 1976 Addenda, _____ Code Case _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983

6. Identification of Components Repaired and Replacement Components - See additional components on attached sheets.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)

7. Description of Work Replaced all components associated with RTD bypass Loop 2 with direct immersion RTDs and thermowells.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 2280 psi Test Temp. Nominal °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Manufacturer's data reports are attached. The components deleted/ removed from the plant as a result of the elimination of the RTD bypass lines are noted on the attached sheets. Installation of the replacement components is addressed by 93-ALSQ1.
Applicable Manufacturer's Data Reports to be attached
The noted pressure testingf was accomplished by EPT-159, EST-201 and 93-ALRA1.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp None

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] Mgr ET Date 7/18, 19 94
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by The Hartford Steam Boiler Inspection and Insurance Company of One State Street, Hartford, Connecticut 06102 have inspected the components described in this Owner's Report during the period 12/02/92 to 05/12/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions NC 1042
Inspector's Signature National Board, State, Province, and Endorsements

Date July 14 19 94

1. Owner Carolina Power & Light Company; P.O. Box 1551, Raleigh, N. C. 27602-1551Sheet 2 of 32. Plant Shearon Harris Nuclear Power Plant, Unit 1; P.O. Box 165, New Hill, N. C. 27562-0165Date 06/27/943. Work Performed by Carolina Power & Light Co., New Hill, N.C. (Replaced Components)
PCI Energy Services, One Energy Drive, P.O. Box 3000, Lake Bluff, IL. 60044 (Replacement Components)Repair Organization P.O. No., Job No., etc. 93-AK011 (Replaced Components), 93-ALS01 (Replacement Components)4. Identification of System Reactor Coolant System (2005)5. (a) Applicable Construction Code ASME SECT. III 19 74 Edition, W 1976 Addenda, _____ Code Case(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve	KMC ¹	HAQ1-7	30905	1RC-63 1RC-V116SN-1	1980	Replaced	Yes
Valve	KMC	HAQ2-4	35867	1RC-64 1RC-V125SN-1	1983	Replaced	Yes
Valve	KMC	HAQ1-21	29970	1RC-69 1RC-V110SN-1	1980	Replaced	Yes
Valve	WEC ²	03001GH9900002 000S740012	W19195	1RC-70 1RC-V541SN-1	1979	Replaced	Yes
Valve	KMC	HAQ1-11	29964	1RC-19 1RC-V19SN-1	1980	Replaced	Yes
Valve	WEC	03001GH9900002 000S740017	W19727	1RC-44 1RC-V502SN-1	1979	Replaced	Yes
Valve	KMC	HAQ1-8	29963	1RC-11 1RC-V11SN-1	1980	Replaced	Yes
Hanger		N/A	N/A	1-RC-H-335 ³	1986	Replaced	No
Hanger		N/A	N/A	337	1986	Replaced	No
Hanger		N/A	N/A	339	1986	Replaced	No
Hanger		N/A	N/A	342	1986	Replaced	No
Hanger		N/A	N/A	344	1986	Replaced	No
Hanger		N/A	N/A	345	1986	Replaced	No
Hanger		N/A	N/A	347	1986	Replaced	No
Hanger		N/A	N/A	351	1986	Replaced	No

¹ - Kerotest Manufacturing Company (KMC)² - Westinghouse Electric Corporation (WEC)³ - Unless otherwise noted all hanger numbers begin with the prefix "1-RC-H-".

1. Owner Carolina Power & Light Company; P.O. Box 1551, Raleigh, N. C. 27602-1551

Sheet 3 of 3

2. Plant Shearon Harris Nuclear Power Plant, Unit 1; P.O. Box 165, New Hill, N. C. 27562-0165

Date 06/27/94

3. Work Performed by Carolina Power & Light Co., New Hill, N.C., (Replaced Components)
PCI Energy Services, One Energy Drive, P.O. Box 3000, Lake Bluff, IL 60044 (Replacement Components)

Repair Organization P.O. No., Job No., etc. 93-ALQ11 (Replaced Components), 93-ALSQ1 (Replacement Components)

4. Identification of System Reactor Coolant System (2005)

5. (a) Applicable Construction Code ASME SECT. III 19 74 Edition, W 1976 Addenda, _____ Code Case _____

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Hanger		N/A	N/A	1-RC-H-352	1986	Replaced	No
Hanger		N/A	N/A	1-RC-H-353	1986	Replaced	No
Hanger		N/A	N/A	1-RC-H-355	1986	Replaced	No
Hanger		N/A	N/A	1-RC-H-359	1986	Replaced	No
Hanger		N/A	N/A	1-RC-H-798	1986	Replaced	No
Loop B 0° HL ¹ T/W ²	Weed Instrument Company Inc.	N8105	N/A	Part# 740-156-60 PO# 597657	1993	Replacement	No
Loop B 120° HL T/W	Weed Instrument Company Inc.	N8107	N/A	Part# 740-156-60 PO# 597657	1993	Replacement	No
Loop B 240° HL T/W	Weed Instrument Company Inc.	N8113	N/A	Part# 740-156-60 PO# 597657	1993	Replacement	No
Loop B CL ³ T/W	Weed Instrument Company Inc.	N8120	N/A	Part# 740-156-94 PO# 597657	1993	Replacement	No
Pipe Cap Loop B	Tioga Pipe Supply Co. Inc.	N/A	N/A	Part# 739-927-52 PO# 7K7243	1993	Replacement	No

- 1 - Hot Leg (HL)
- 2 - Thermowell (T/W)
- 3 - Cold Leg (CL)
- 4 - Crossover (Xover)

739-927-52
7K7243



PIPE SUPPLY COMPANY INC.
2450 WHEATSHEAF LANE, PHILADELPHIA, PA 19137

CUSTOMER PURCHASE ORDER CERTIFICATE OF CONFORMANCE

Description	Applies		Description	Applies	
	Yes	No		Yes	No
Material Manufacturers Certified Material Test Report (CMTR)	X		Report of treatments, examinations or tests not performed		X
Material Manufacturers Supplemental Certifications for Examinations and/or Tests	X		Manufacturers or subcontractors Radiographic Reader's Report		X
Material Manufacturers Subcontractors CMTR		X	Manufacturers or subcontractors Radiographic Film		X
Tioga Pipe Supply Co., Inc. Subcontractors CMTR for NDE		X	Partial Data Reports or other records for weld filler metal pipe		X
Tioga Pipe Supply Co., Inc. Subcontractors CMTR for Destructive Testing		X	Tioga Pipe Supply Co., Inc. Certificate of Analyses and Tests		X

Material Ordered: 3" SCH 160 B.W. CAP - 4 PCS

- 1) ASME CODE SECTION II, 1974 EDITION WINTER 1976 ADDENDA FOR ASME SA403, WP304 MATERIALS.
- 2) ASME CODE SECTION III, 1974 EDITION WINTER 1976 ADDENDA ARTICLES NB-2000 AND NCA-3800 FOR CLASS 1 MATERIALS.
- 3) CP&L SPEC 065 REV. 1

Traceability:
F8053

Manufacturer:
CUSTOM ALLOY CORPORATION

Tioga Pipe Supply Co., Inc. affirms that the contents of their attached reports is correct and accurate and that this material was processed by Tioga Pipe Supply Co., Inc. in compliance with their Quality Systems Program. The material supplied conforms to the purchase order requirements.
Quality System Manual Revision 3 Dated 8-28-91 Category A

REFERENCE INFORMATION

Customer P.O. # 7K7243J
Item # 01

Tioga Pipe Supply Co., Inc.
ASME Certificate of Authorization
(Materials) - Number QSC- 467
Expiration Date - 11-5-94

Tioga S.O. # 808486P
Item # 1

Louise Lerman 12-28-93
Quality Assurance Date

0414
1494



CUSTOM ALLOY CORPORATION

3 Washington Ave. • High Bridge, N.J. 08829

Heat Code: F8053 ✓

PRODUCT DESCRIPTION		CUSTOMER DATA	
Item <u>Cap</u>		Name <u>Tioga Pipe Supply Co., Inc.</u>	
Size <u>3 NPS</u>		P.O. No. <u>P 56369 N</u>	
Wall <u>Schedule 160</u>		Tag No. <u>7K7243CJ</u> ✓	
Grade <u>WP304 Seamless</u>		Job No. <u>N-2196-1</u>	
Specifications: <u>ASME SA403 WP304 Seamless Section III Class 1; NCA3800, 1974 Edition through Winter 1976 Addenda; 10CFR50 Appendix B; CP&L 065 Rev. 1; TPS A1, Rev. 0. Paragraphs 1 - 15 and 19D</u>			

CHEMICAL ANALYSIS										
	C	Mn	P	S	Si	Cr	Ni	Mo	Cb	N
Ladle	.025	1.55	.030	.003	.60	18.14	9.10			.085
* Check	.024	1.56	.027	.011	.62	18.70	8.90			.08
MECHANICAL PROPERTIES										
Yield Strength 2% Offset	Tensile Strength PSI	Elong. in 2" %4D	Red of Area %	Starting Material Control No.		Starting Material conforms to the chemical and tensile requirements of				
41709 ✓	88191 ✓	54.3 ✓		B1647		Seamless Plate				

MILL HEAT NO: 223874 Washington Steel

REMARKS: Material solution annealed at 1950 Degrees F (±25 Degrees F), held for one hour per inch (15 minutes minimum), and rapidly quenched in circulating water to below 800 Degrees F in less than three minutes.

Corrosion Testing performed in accordance with ASTM A262 Practice E - Satisfactory
100% Liquid Penetrant Inspected in accordance with Procedure Number 87-PT-2, Rev. 1
Satisfactory - Report Attached

CAC
O.A. APPROVED
JC DATE: 12/28/93
O.A. TECHNICIAN

This material was produced in accordance with Custom Alloy Corporation Quality Assurance Program, Rev. 5, dated 9/1/92 which was audited and qualified by Tioga Pipe Supply Co., Inc. as conforming to the requirements of ASME Section III, Subarticle NCA-3800.

No welding or weld repair has been performed on this material.

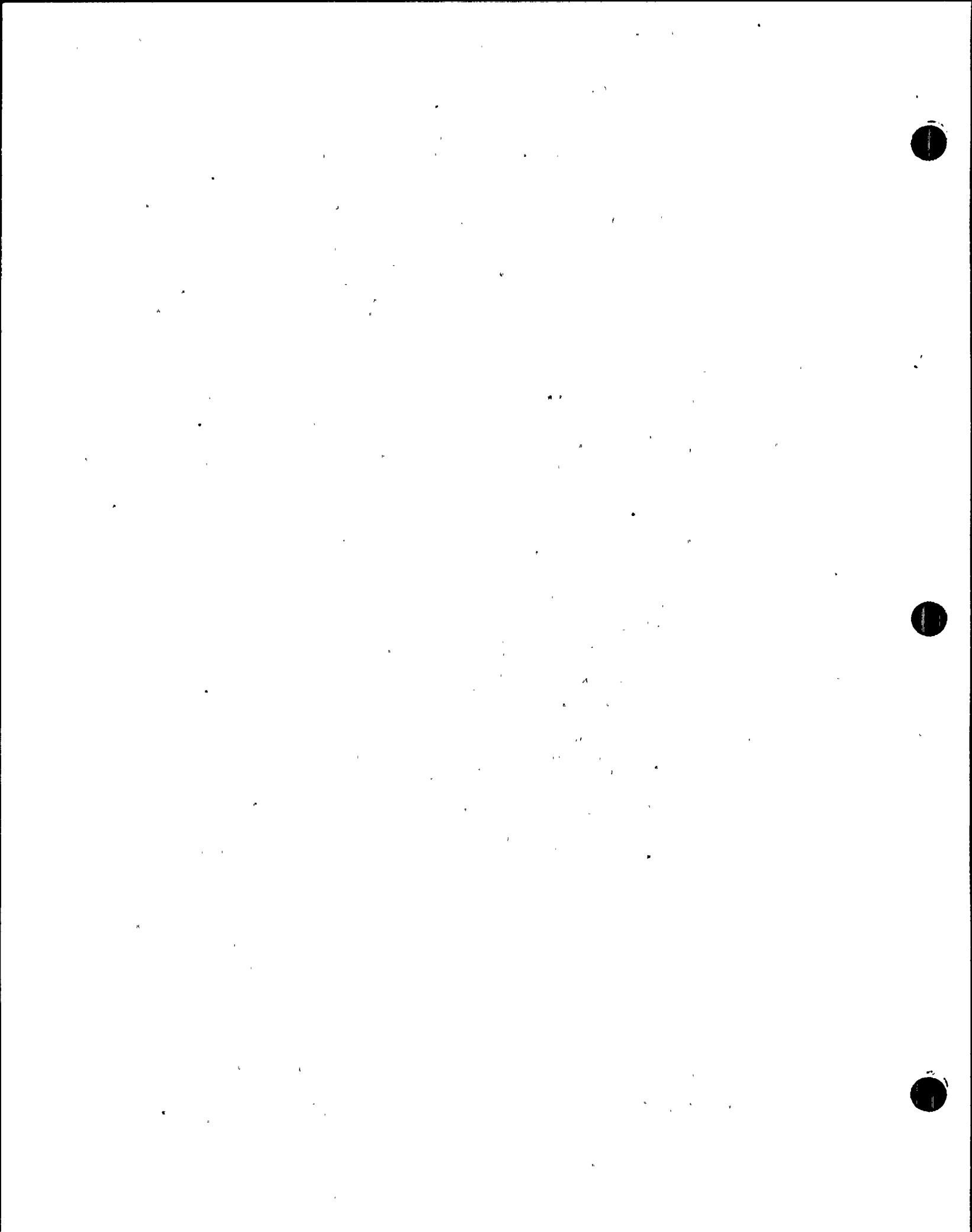
*Results of upgrading in accordance with NCA3887.4(e)

12/28/93

The provisions of 10CFR21 apply to this order Frederick N. Trach
Director of Quality

I certify the above product has been manufactured in accordance with all applicable parts of the above order and specifications.
Frederick N. Trach
CUSTOM ALLOY CORPORATION
Authorized Signature

1/4/94





LIQUID PENETRANT TEST REPORT

CAC No: B1647
Heat No Code: F8053 -

Customer: <u>TIoga PIPE</u>	Inspector/Level II	Date:
Job No: <u>CN 2196-1</u>	Alloy: <u>WP 304</u>	Examiner/Level III
Item: <u>CAP. 2:1 CL.</u>	Size: <u>3" S1160</u>	Qty. Inspected: <u>4</u>
		Date: <u>12-23-93</u>
		Qty. Accepted: <u>4</u>

Procedure: 87-PT-2, REV. 1 Method: WATER WASHABLE

Test Material Mfg: TURCO PRODUCTS

	Batch	Sulphur	Halides
Penetrant	<u>XE 305H</u>	<u>10 ppm</u>	<u>16 ppm</u>
Remover	<u>NIA</u>	<u>NIA</u>	<u>NIA</u>
Developer	<u>XL 157M</u>	<u>129 ppm</u>	<u>10 ppm</u>

PC #	ACC	REJ	S/N	ACC	REJ	COMMENTS
1	X					
2	X					
3	X					
4	X					



WEED INSTRUMENT CO., INC.

PAGE _____ OF _____

740-156-60
597657

CERTIFICATE OF CONFORMANCE

4
740-156-94
597657

CERT. NO. 3519

WEED S.O. 31855.1.1, 3.1 & 4.1
CUSTOMER CAROLINA POWER AND LIGHT COMPANY
P.O. 597657M-CC
ITEM NO. 1, 3 & 4

ITEM 1: MODEL N9004E-2B RTD ASSEMBLY WITH BAYONET STYLE CONNECTOR
ITEM 3: FAST TIME RESPONSE ASME SEC III, CLASS 1 THERMOWELL FOR USE IN RCS HOT LEG SCOOP
ITEM 4: FAST TIME RESPONSE ASME SEC III, CLASS 1 THERMOWELL FOR USE IN RCS COLD LEG

WEED DRWG ITEM 1 DRAWING NO.: 0337-318355-001 REV. 0
ITEM 3 DRAWING NO.: 0417-318355-002 REV. 0
ITEM 4 DRAWING NO.: 0417-318355-003 REV. 0

QUANTITY ITEM 1: 14 ASSEMBLIES
ITEM 3: 11 THERMOWELLS
ITEM 4: 4 THERMOWELLS

IDENTITY ITEM 1 SERIAL NO.'S: N7910, N7911, N7914, N7918, N7919, N7921, N7923, N7929, N7930, N7931, N7933, N7934, N7935 & N7938.
ITEM 3 SERIAL NO.'S: N8105, N8106, N8107, N8108, N8109, N8110, N8111, N8112, N8113, N8114 & N8115
ITEM 4 SERIAL NO.'S: N8120, N8121, N8122 & N8123.

SHIP DATE 2-16-94

APPL. SPEC. PER PURCHASE ORDER, EXCEPT AS RESOLVED PER LETTER DATED 2-16-94 FROM BILLY O'NEIL OF CP&L.

REMARKS ITEM(S) SUPPLIED IN COMPLIANCE WITH WEED QA/QC REGULATION 100-1 REV. 2, ANSI N45.2 AND 10CFR50 APPENDIX B. ITEM(S) QUALIFIED TO IEEE 323-1974/1983 AND 344-1975 AND NUREG 0588 PER SWRI QUALIFICATION TEST REPORT 06-8680-003 REV. 1 AND EGS TEST REPORT PEI-TR-880701-04.



CERTIFICATE OF CONFORMANCE

CERT. NO. 3519 (CONTINUED)

I HEREBY CERTIFY THAT THE ITEMS LISTED ABOVE HAVE BEEN MANUFACTURED AND TESTED IN ACCORDANCE WITH THE PROCEDURE APPROVED BY THE CONTRACTING AGENCY AND ARE IN CONFORMANCE WITH ALL THE REQUIREMENTS OF THE APPLICABLE SPECIFICATION SHOWN ABOVE. ALL AVAILABLE TEST REPORTS AND RECORDS ARE ON FILE FOR EXAMINATION TO SUBSTANTIATE CONFORMANCE WITH APPLICABLE CALIBRATION REQUIREMENTS. IT IS FURTHER CERTIFIED THAT TO THE BEST OF MY KNOWLEDGE ANY ATTACHED DATA IS TRUE AND CORRECT.

WEED INSTRUMENT CO., INC.
P.O. BOX 300, 707 JEFFREY WAY
ROUND ROCK, TEXAS 78680
(512) 255-7043

APPROVED BY: 
NAME: RAYYANEH OSKOU
TITLE: QUALITY SYSTEMS MGR.
DATE: 2-17-94



1. INSTALLED AND CERTIFIED BY CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
2. INSTALLED FOR CAROLINA POWER & LIGHT CO., RALEIGH, N.C.
3. LOCATION OF INSTALLATION SHEARON HARRIS NUCLEAR POWER PLANT, NEW HILL, N.C.
4. SYSTEM IDENTIFICATION. REACTOR COOLANT

(SYSTEM NAME)		(MFR SERIAL NO)
SEE SUPPLEMENT #7 - 1 PAGE	N/A	55
(DRAWING NUMBER)	(CRN)	(NB NO) (YEAR INST)
		1986

NUCLEAR COMPONENTS AND APPURTENANCES INSTALLED:

(A) COMPONENT OR APPURTENANCE	(B) NAME OF CERT HOLDER	(C) SERIAL NO	(D) CRN	(E) NATL BD NO	(F) YR BUILT
1-RC-P-00525-SN -1	FCC	5909451	N/A	6548	1982
1-RC-P-00526-SN -1	FCC	5909452	N/A	6566	1982
1-RC-P-00527-SN -1	CVI	7310-95282-204-X-1	N/A	584	1976
1-RC-P-00528-SN -1	CVI	7310-59282-204-X-2	N/A	589	1976
1-RC-P-00529-SN -1	CVI	7310-59282-204-X-3	N/A	590	1976
1-RC-R-00528-SN -1	CV&G	N56964-00-0050	N/A	222	1976
1-RC-R-00529-SN -1	CV&G	N56964-00-0088	N/A	374	1977
1-RC-R-00530-SN -1	CV&G	N56964-00-0052	N/A	224	1976
1-RC-V-00002-SN -1	KMC	HAQ1-4	N/A	29961	1980
1-RC-V-00007-SN -1	KMC	HAQ1-6	N/A	29720	1980
1-RC-V-00008-SN -1	KMC	HAQ1-14	N/A	29721	1980
1-RC-V-00009-SN -1	KMC	HAQ1-5	N/A	29962	1980
1-RC-V-00011-SN -1	KMC	HAQ1-8	N/A	29963	1980
1-RC-V-00016-SN -1	KMC	HAQ1-16	N/A	29722	1980
1-RC-V-00017-SN -1	KMC	HAQ1-24	N/A	29723	1980
1-RC-V-00019-SN -1	KMC	HAQ1-11	N/A	29964	1980
1-RC-V-00022-SN -1	KMC	HAQ1-13	N/A	29965	1980
1-RC-V-00028-SN -1	KMC	HAQ1-15	N/A	29966	1980
1-RC-V-00029-SN -1	KMC	HAQ1-17	N/A	29967	1980
1-RC-V-00030-SN -1	KMC	HAQ1-18	N/A	29968	1980
1-RC-V-00031-SN -1	KMC	HAJ2-6	N/A	28253	1980
1-RC-V-00109-SN -1	KMC	HAQ1-20	N/A	29969	1980
1-RC-V-00110-SN -1	KMC	HAQ1-21	N/A	29970	1980
1-RC-V-00111-SN -1	KMC	HAQ1-22	N/A	29971	1980
1-RC-V-00115-SN -1	KMC	HAQ1-25	N/A	29972	1980
1-RC-V-00116-SN -1	KMC	HAQ1-7	N/A	30905	1980
1-RC-V-00117-SN -1	KMC	HAQ1-19	N/A	30906	1980
1-RC-V-00124-SN -1	KMC	HAQ2-2	N/A	35866	1983
1-RC-V-00125-SN -1	KMC	HAQ2-4	N/A	35867	1983
1-RC-V-00126-SN -1	KMC	HAQ2-5	N/A	35868	1983
1-RC-V-00500-SN -1	WEC	03001GH9900002000S740014	N/A	W19724	1979
1-RC-V-00501-SN -1	WEC	03001GH9900002000S740016	N/A	W19726	1979
1-RC-V-00502-SN -1	WEC	03001GH9900002000S740017	N/A	W19727	1979
1-RC-V-00503-SN -1	WEC	03001GH9900002000S740013	N/A	W19196	1979
1-RC-V-00526-SN -1	WEC	03003GM99FNH02G00S740001	N/A	W26400	1983
1-RC-V-00527-SN -1	WEC	03003GM99FNH02G00S740002	N/A	W26401	1983
1-RC-V-00528-SN -1	WEC	03003GM99FNH02G00S740003	N/A	W26402	1983
1-RC-V-00540-SN -1	WEC	03001GH9900002000S740001	N/A	W19168	1979
1-RC-V-00541-SN -1	WEC	03001GH9900002000S740012	N/A	W19195	1979
1-RC-V-00542-SN -1	WEC	03001GH9900002000S740015	N/A	W19725	1979

CERTIFICATE HOLDER REP
ANI

M.D. Simon



Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Main Flange Studs	SA453 GR 660	Plainville Mfg Co	Ht. No. 15156
Main Flange Nuts	SA194 GR 6	Vitco Nuclear	Ht. No. 75368
(d) Other Parts			

8. Hydrostatic test 6284 psi.

CERTIFICATION OF DESIGN

Design information on file at Westinghouse Electro-Mechanical Division
 Stress analysis report on file at Westinghouse Electro-Mechanical Division
 Design specifications certified by Henry P. Leonard (1) Prof. Eng. State Pa. Reg. No. 23938-E
 Stress analysis report certified by Harry E. Eminger (1) Prof. Eng. State Pa. Reg. No. 10729-E
 (1) Signature not required. List name only.

We certify that the statements made in this report are correct.
 Date 4-16 19 79 Signed Westinghouse Electric
Electro-Mechanical Div. By Mike Bonfiglio
 (Manufacturer)

Certificate of Authorization No. 1385 expires May 14, 1979

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of Pennsylvania and employed by Lumbermens Mutual Casualty Co. of Long Grove, Illinois have inspected the equipment described in this Data Report on 4-17 19 79, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.
 By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-17 19 79

Paul Savino (Inspector) Commission NB34325 Pa 1760
 (National Board, State, Province and No.)

0 3 7 3 1 2 1 8 6 4



FORM NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Main Flange Studs	SA453 GR 660	Plainville Mfg Co	Ht. No. 15156
Main Flange Nuts	SA194 GR 6	Vitco Nuclear	Ht. No. 75368
(d) Other Parts			

B. Hydrostatic test 6284 psi.

CERTIFICATION OF DESIGN

Design information on file at Westinghouse Electro-Mechanical Division
 Stress analysis report on file at Westinghouse Electro-Mechanical Division
 Design specifications certified by Henry P. Leonard (1) Prof. Eng. State Pa. Reg. No. 23938-E
 Stress analysis report certified by Harry E. Eminger (1) Prof. Eng. State Pa. Reg. No. 10729-E
 (1) Signature not required. List name only.

We certify that the statements made in this report are correct.

Date 4-16 19 79 Signed Westinghouse Electric
Electro-Mechanical Div. By Mike Bonfigli
 (Manufacturer)

Certificate of Authorization No. 1385 expires May 14, 1979

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of Pennsylvania and employed by Lumbermens Mutual Casualty Co. of Long Grove, Illinois

have inspected the equipment described in this Data Report on 4-17 19 79, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

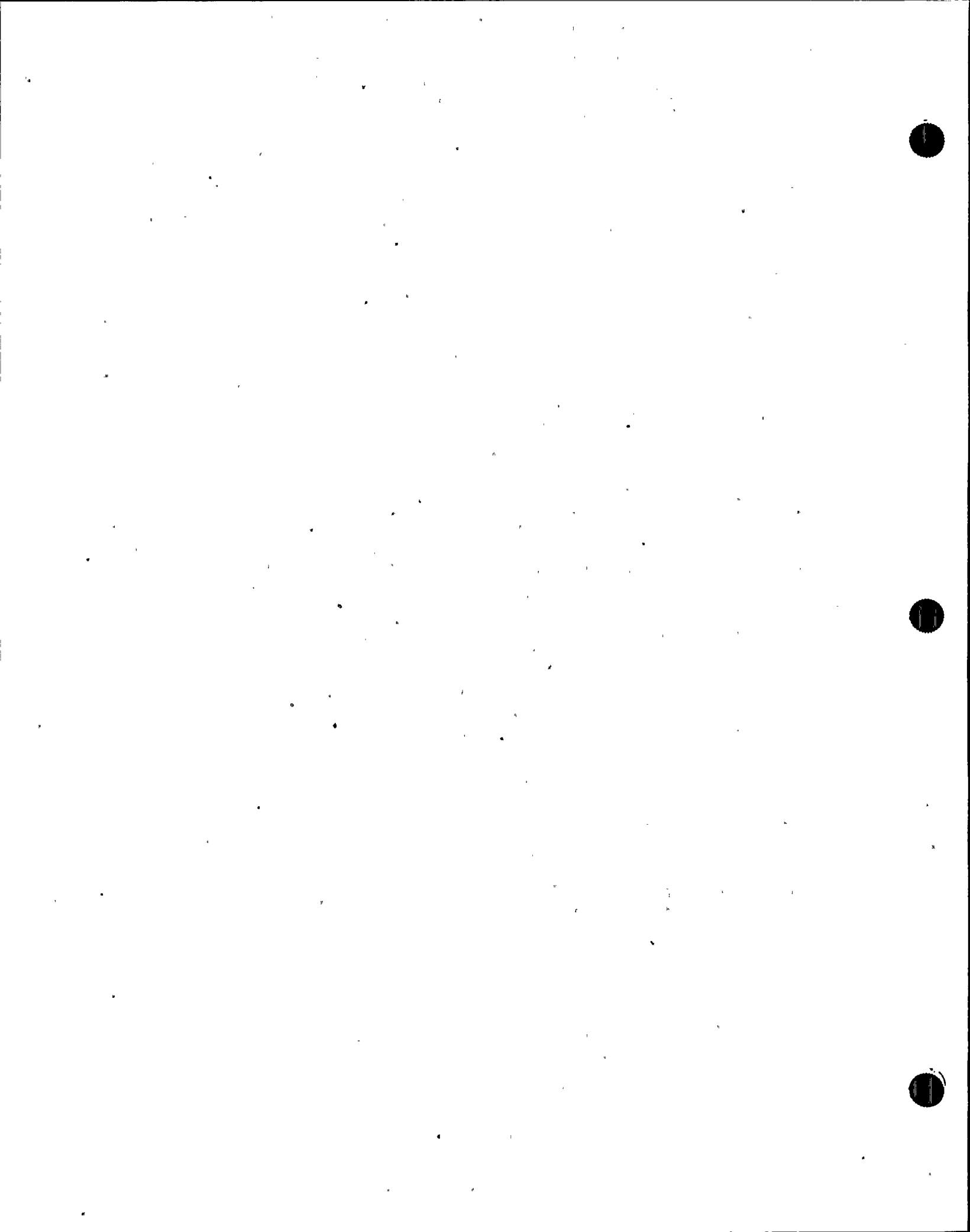
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-17 19 79

Paul Saracini
 (Inspector)

Commission NA4825 Pa 1760
 (National Board, State, Province and No.)

0 8 7 3 1 2 1 8 6 6



FORM NPV-1 N CERTIFICATE HOLDERS DATA REPORT FOR NUCLEAR PUMPS OR VALVES
 As Required by the Provisions of the ASME Code, Section III, Div. 1 Sh. 1 of 2

1. Manufactured by Kortest Manufacturing Corp., Philadelphia, PA (381-6807)
(Name and Address of N Certificate Holder)

2. Manufactured for General Services, Inc., New York, NY
(Name and Address of Purchaser or Owner)

3. Location of Installation Strommen Island, Delaware, DE 19111, DE
(Name and Address)

4. Pump or Valve Valve Nominal Inlet Size 2" Outlet Size 2"
(inch) (inch)

(a) Model No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year - Built
(1) Globe	HAQ1-11 ✓	N/A	SH-D-9909X02E/16-(1)	1	29961	1980
(2) Globe	HAQ1-5 ✓	N/A	SH-D-9909X02E/16-(1)	1	29962	1980
(3) Globe	HAQ1-8 ✓	N/A	SH-D-9909X02E/16-(1)	1	29963	1980
(4) Globe	HAQ1-11 ✓	N/A	SH-D-9909X02E/16-(1)	1	29964	1980
(5) Globe	HAQ1-13 ✓	N/A	SH-D-9909X02E/16-(1)	1	29965	1980
(6) Globe	HAQ1-15	N/A	SH-D-9909X02E/16-(1)	1	29966	1980
(7) Globe	HAQ1-17	N/A	SH-D-9909X02E/16-(1)	1	29967	1980
(8) Globe	HAQ1-18 ✓	N/A	SH-D-9909X02E/16-(1)	1	29968	1980
(9) Globe	HAQ1-20 ✓	N/A	SH-D-9909X02E/16-(1)	1	29969	1980
(10) Globe	HAQ1-21 ✓	N/A	SH-D-9909X02E/16-(1)	1	29970	1980

5. Station Valve for WF1, WF3 Fluids
(Brief description of service for which equipment was designed)

6. Design Conditions 2485 psi 650 °F or Valve Pressure Class 1513 (1)
(Pressure) (Temperature)

7. Cold Working Pressure 3031 psi at 100°F.

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			

(b) Forgings			
Body	HG-P-10501E/16-1-(1) ✓	SA182, F316	McWilliams Mat'l Code HAQ
Yoke	H/P-9910-31P-(1)	SA195 ✓	McWilliams Mat'l Code ACAF

REVIEWED
 W JFC
 ISSUED
 McWilliams
 15250 VON PIP.

(1) For manually operated valves only.
 * Supplemental sheets in form of lists, sketches or drawings may be used provided (1) sheets are 11" x 17", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

Mark No.	Material Spec. No.	Manufa	Remarks
(c) Rolling			
(d) Other Parts			
9909-9-(1)Z	SA179, Type 316	Carpenter	Mat'l Code JAS
9909-3-(1)Z	SA179, Type 316	Joslyn	Mat'l Code JAS

9. Hydrostatic test 5447 psi. Disk Differential test pressure 3631 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974
 Addenda Summer 1975 Code Case No. N/A Date June 4, 1980
 Signed Kerotest by [Signature]
 (N Certificate Holder)
 Our ASME Certificate of Authorization No. 1902 to use the N symbol expires 10/31/80
 (N) (Date)

CERTIFICATION OF DESIGN

Design information on file at Kerotest Manufacturing Corp.
 Stress analysis report (Class 1 only) on file at Kerotest Manufacturing Corp.

Design specifications certified by (1) <u>A. C. Chen</u>	REVIEWED
PE State <u>NC</u> Reg. No. <u>0194</u>	sr <u>74</u>
Stress analysis certified by (1) <u>R. G. Visalli</u>	ESASCO ENGINEERING
PE State <u>PA</u> Reg. No. <u>19068-E</u>	DESIGNED BY <u>[Signature]</u>
	ESASCO VQA DEP.

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by The Hartford Steam Boiler
of Hartford, Connecticut have inspected the pump, or valve, described in this Data Report on 6/6/80, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector, nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6/6/80
[Signature] (Inspector) Commissions PA 110 187784
 (Nat'l Bd., State, Prov. and Dist.)

sc. rinet
 3 3 3
 1 4 3
 1 3 7



SUPPLEMENT SHEET
FORM NPV-1

1. Manufactured by Kerotest Manufacturing Corp. NU-68607

2. Manufactured for Carolina Power & Light Co.

Manufacturers's Serial No.	Drawing No.	Class	Nat'l Board No.
-------------------------------	----------------	-------	--------------------

(11)	HAQ1-22 ✓	SH-D-9909X02BW16--(1)	1	29971
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(12)	HAQ1-25	SH-D-9909X02BW16--(1)	1	29972
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(13)	RISK W/L/SO			
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(14)				
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(15)				
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(16)				
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(17)				
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(18)				
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(19)				
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(20)				
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(21)				
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(22)				
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(23)				
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(24)				
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(25)				
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5. (Service) Station Valve for WFL, WF3 Fluids

REVISION	BY <u>7/15</u>
REASCO ENGINEERING	REVIEW CHECK BY <input type="checkbox"/>
..... 7/26/68 REASCO VIA FAX	

1371483375

FORM NPV-1-N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES
 As Required by the Provisions of the ASME Code, Section III, Div. 1

1. Manufactured by Kerotest Manufacturing Corp., Pittsburgh, PA (NU-68607)
(Name and Address of N Certificate Holder)
 2. Manufactured for Ebasco Services, Inc., New York, NY
(Name and Address of Purchaser or Owner)
 3. Location of Installation Shearon Harris Nuclear Plant, New Hill, NC
(Name and Address)
 4. Pump or Valve Valve Nominal Inlet Size 2" Outlet Size 2"
(inch) (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	Globe	HAQ1-7 /	N/A	SH-D-9909X02BW16-(1)	1	30905	1980
(2)	Globe	HAQ1-19 /	N/A	SH-D-9909X02BW16-(1)	1	30906	1980
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

REVIEWED
 8-14-80
 EBASCO INC. - SEPT. 1980
 SHEARON HARRIS NUCLEAR PLANT
 J. J. ...
 EBASCO VCA REP.

5. Station Valves for WFI, WF3 Fluids
(Brief description of service for which equipment was designed)

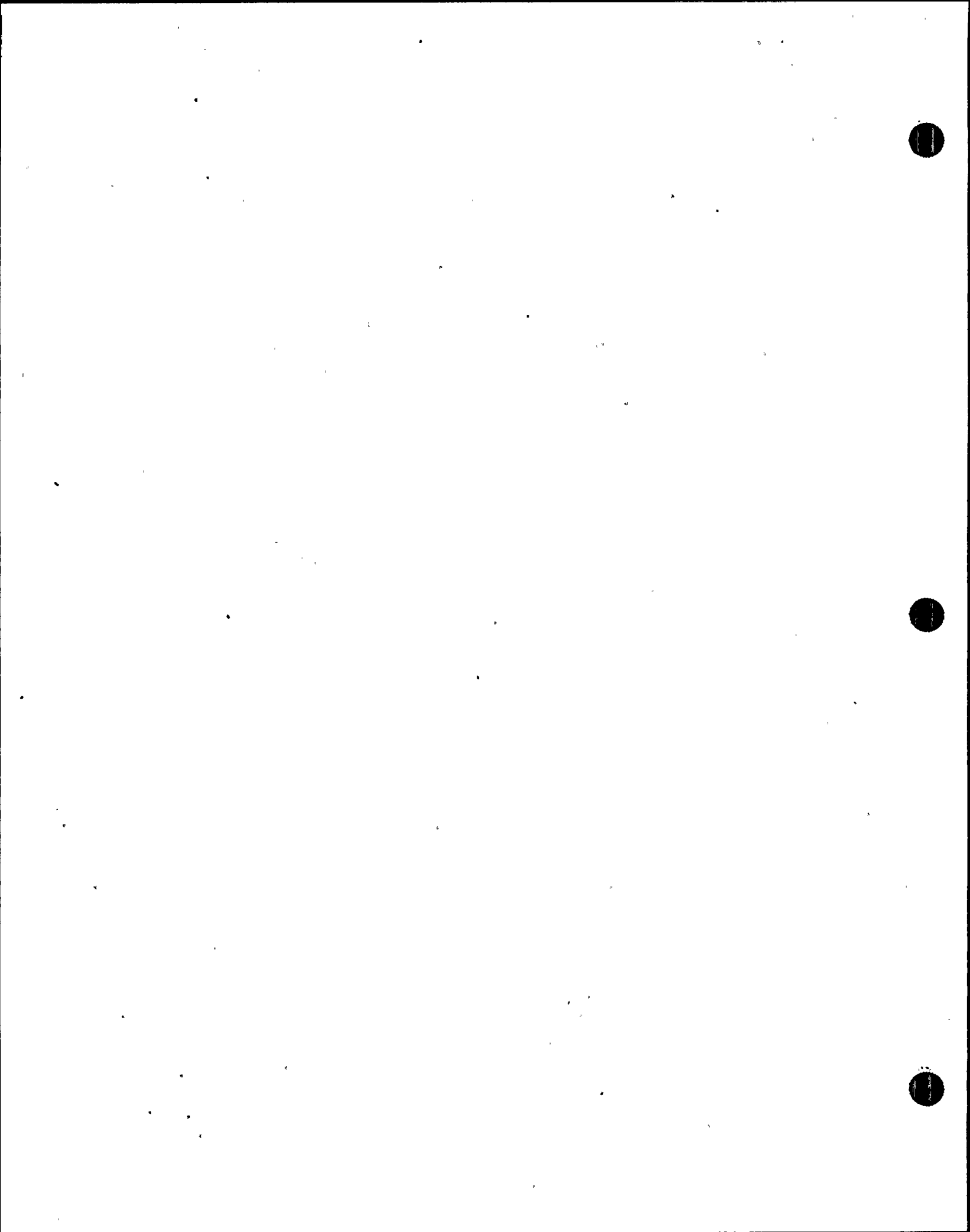
6. Design Conditions 2485 psi 650 °F or Valve Pressure Class 1513# (1)
(Pressure) (Temperature)
 7. Cold Working Pressure 3631 psi at 100°F.
 8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
HG-P10501BW16-1-(1)Z	SA182, F316 ✓	McWilliams	Mat'l Code HAQ
M/P-9910-31P-(1)	SA105 ✓	McWilliams	Mat'l Code ACAF

Body
Yoke

(1) For manually operated valves only.
 * Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

2 6 3 5
 0 3 7 1 4 3



Mark No.	Material Spc. No.	Manufacturer	Remarks
(c) Bolting			
(d) Other Parts			
Disc: 9909-9-(1)Z	SA1179, Type 316	Carpenter	Mat'l Code JAR
Bonnet: 9909-3-(1)Z	SA1179, Type 316	Joslyn	Mat'l Code EAL

Disc:
Bonnet:

9. Hydrostatic test 5447 psi. Disk Differential test pressure 3631 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components. Section III, Div. I., Edition 1974.
 Addenda Summer 1976, Code Case No. N/A Date July 22, 1980
 Signed Kerotest (IDATA) by Joseph C. Tinto (In Certificate Holder)
 Our ASME Certificate of Authorization No. 1902 to use the N symbol expires 4/25/83 (Date)

CERTIFICATION OF DESIGN

Design information on file at Kerotest Manufacturing Corp.
 Stress analysis report (Class T only) on file at Kerotest Manufacturing Corp.
 Design specifications certified by (1) A. C. Chen
 PE State NC Reg. No. 6494
 Stress analysis certified by (1) R. G. Visalli
 PE State PA Reg. No. 19068-E
 (1) Signature not required. List name only.

REVIEWED BY [Signature] 7/14/80
 ASME CERTIFIED BY [Signature]
 ASME REG. NO. [Blank]
 ASME STATE PA

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by The Hartford Steam Boiler of Hartford, Connecticut have inspected the pump, or valve, described in this Data Report on 7/25 19 80, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.
 By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date 7/25 1980
RIS Kunning (Inspector) Commissions PA 150 NB7734 (Nat'l Bd, State, Prov and No)

I&I Co.

U 3 7 1 4 3 2 6 3 6



FORM NPV-1 N CERTIFICATE HOLDER'S DATA REPORT FOR NUCLEAR PUMPS OR VALVES*
As Required by the Provisions of the ASME Code, Section III, Div. 1 Sht. 1 of 1

1. Manufactured by Kerotest Manufacturing Corp., Pittsburgh, PA (NU-68607)
(Name and Address of N Certificate Holder)
 2. Manufactured for Ebasco Services, Inc., New York, NY
(Name and Address of Purchaser or Owner)
 3. Location of Installation Sheraton Harris Nuclear Plant, New Hill, NC
(Name and Address)
 4. Pump or Valve Valve Nominal Inlet Size 2" Outlet Size 2"
(inch) (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	Globe	HAQ2-2	N/A	SH-D-9909X02BW16-(1)	1	35866	1983
(2)	Globe	HAQ2-4	N/A	SH-D-9909X02BW16-(1)	1	35867	1983
(3)	Globe	HAQ2-5	N/A	SH-D-9909X02BW16-(1)	1	35868	1983
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. Station Valves for WF1, WF3 Fluids
(Brief description of service for which equipment was designed)

6. Design Conditions 2485 psi 650 °F or Valve Pressure Class 1513# (1)
(Pressure) (Temperature)
 7. Cold Working Pressure 3631 psi at 100°F

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
Body - HAQ	SA182, F316	McWilliams	
Yoke - JSF	SA105	McWilliams	

DESIGNED BY JSF

CLASS. ENGINEER'S
10-28-83

JSF

ASME

(1) For manually operated valves only.

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

1.5 2.0 3.0 4.0



Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Boiling			
(d) Other Parts			
Disc - AHG	SA479, Type 316	Joslyn	
Bonnet - FAL	SA479, Type 316	Joslyn	

9. Hydrostatic test 5500 psi. Disk Differential test pressure 3700 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. I, Edition 1974
 Addenda Summer 1976 (Date), Code Case No. N/A, Date October 3, 1983
 Signed Kerotest Manufacturing Corp. (In Certificate Holder) by [Signature]
 Our ASME Certificate of Authorization No. 1902 to use the N (N) symbol expires 4/25/86 (Date)

CERTIFICATION OF DESIGN

Design information on file at Kerotest Manufacturing Corp.
 Stress analysis report (Class 1 only) on file at Kerotest Manufacturing Corp.
 Design specifications certified by (1) A. C. Chen
 PE State NC Reg. No. 6494
 Stress analysis certified by (1) S. J. Caroleo
 PE State PA Reg. No. 17144-E
 (1) Signature not required. List name only.

REVIEWED BY [Signature]
 REVIEW VERIFIED BY [Signature]
 APR 25 1986

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by The Hartford Steam Boiler I&I Co. of Hartford, Connecticut have inspected the pump, or valve, described in this Data Report on 10-4 19 83, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.
 By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date 10-4 19 83
[Signature] (Inspector) Commissions NCB 7912N (Nat'l Bd., State, Prov. and No.)

037.1.1.43 2018

2-4-17



FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 06/27/94
Name
P.O. Box 1551, Raleigh, N. C. 27602-1551 Sheet 1 of 3
Address

2. Plant Shearon Harris Nuclear Power Plant Unit 1
Name
P.O. Box 165, New Hill, N. C. 27562-0165 93-ALQ11 and 93-ALS01
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Carolina Power & Light Company Type Code Symbol Stamp N/A
Name Authorization No. N/A
New Hill, N.C. Address Expiration Date N/A
Address

4. Identification of System Reactor Coolant System (2005)

5. (a) Applicable Construction Code ASME SECT. III 19 74 Edition, W 1976 Addenda, _____ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983

6. Identification of Components Repaired and Replacement Components - See additional components on attached sheets.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)

7. Description of Work Replaced all components associated with RTD bypass 3 with direct immersion RTDs and thermowells.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 2280 psi Test Temp. Nominal °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Manufacturer's data reports are attached. The components deleted/removed from the plant as a result of the elimination of the RTD bypass lines are noted on the attached sheets. Installation of the replacement components is addressed by 93-ALS01. The noted pressure testing was accomplished by EPT-159, EST-201 and 93-ALRA1.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp None

Certificate of Authorization No. N/A

Expiration Date N/A

Signed [Signature]

Owner or Owner's Designee, Title

Date 7/18, 19 74

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by The Hartford Steam Boiler Inspection and Insurance Company of One State Street, Hartford, Connecticut 06102 have inspected the components described in this Owner's Report during the period 12/02/92 to 05/12/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions NC 1042

National Board, State, Province, and Endorsements

Date July 14, 19 94

1. Owner Carolina Power & Light Company; P.O. Box 1551, Raleigh, N. C. 27602-1551Sheet 2 of 32. Plant Shearon Harris Nuclear Power Plant, Unit 1; P.O. Box 165, New Hill, N. C. 27562-0165Date 06/27/943. Work Performed by Carolina Power & Light Co., New Hill, N.C. (Replaced Components)
PCI Energy Services, One Energy Drive, P.O. Box 3000, Lake Bluff, IL. 60044 (Replacement Components)Repair Organization P.O. No., Job No., etc. 93-ALQ11 (Replaced Components), 93-ALS01 (Replacement Components)4. Identification of System Reactor Coolant System (2005)5. (a) Applicable Construction Code ASME SECT. III 1974 Edition, U 1976 Addenda, _____ Code Case(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve	KMC ¹	HAQ1-22	29971	1RC-953 1RC-V111SN-1	1980	Replaced	Yes
Valve	WEC ²	03001GH9900002 000S740015	W19725	1RC-954 1RC-V542SN-1	1979	Replaced	Yes
Valve	KMC	HAQ2-5	35868	1RC-948 1RC-V126SN-1	1983	Replaced	Yes
Valve	KMC	HAQ1-19	30906	1RC-947 1RC-V117SN-1	1980	Replaced	Yes
Valve	KMC	HAQ1-13	29965	1RC-22 1RC-V22SN-1	1980	Replaced	Yes
Valve	WEC	03001GH9900002 000S740013	W19196	1RC-41 1RC-V503SN-1	1979	Replaced	Yes
Valve	KMC	HAQ1-18	29968	1RC-30 1RC-V30SN-1	1980	Replaced	Yes
Hanger		N/A	N/A	1-RC-H-316 ³	1986	Replaced	No
Hanger		N/A	N/A	317	1986	Replaced	No
Hanger		N/A	N/A	319	1986	Replaced	No
Hanger		N/A	N/A	320	1986	Replaced	No
Hanger		N/A	N/A	321	1986	Replaced	No
Hanger		N/A	N/A	322	1986	Replaced	No
Hanger		N/A	N/A	323	1986	Replaced	No
Hanger		N/A	N/A	325	1986	Replaced	No
Hanger		N/A	N/A	327	1986	Replaced	No

¹ - Kerotest Manufacturing Company (KMC)² - Westinghouse Electric Corporation (WEC)³ - Unless otherwise noted all hanger numbers begin with the prefix "1-RC-H-".

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (CONTINUATION)

R/R# 5-RC-3-02

1. Owner Carolina Power & Light Company; P.O. Box 1551, Raleigh, N. C. 27602-1531

Sheet 3 of 3

2. Plant Shearon Harris Nuclear Power Plant, Unit 1; P.O. Box 165, New Hill, N. C. 27562-0165

Date 06/27/94

3. Work Performed by Carolina Power & Light Co., New Hill, N.C. (Replaced Components)
PCI Energy Services, One Energy Drive, P.O. Box 3000, Lake Bluff, IL. 60044 (Replacement Components)

Repair Organization P.O. No., Job No., etc. 93-ALQ11 (Replaced Components), 93-ALS01 (Replacement Components)

4. Identification of System Reactor Coolant System (2005)

5. (a) Applicable Construction Code ASME SECT. III 1974 Edition, W 1976 Addenda, _____ Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Hanger		N/A	N/A	1-RC-H-329	1986	Replaced	No
Hanger		N/A	N/A	1-RC-H-551	1986	Replaced	No
Hanger		N/A	N/A	1-RC-H-646	1986	Replaced	No
Hanger		N/A	N/A	1-RC-H-787	1986	Replaced	No
Loop C 0° HL ¹ T/W ²	Weed Instrument Company Inc.	N8108	N/A	N/A	1993	Replacement	No
Loop C 120° HL T/W	Weed Instrument Company Inc.	N8110	N/A	N/A	1993	Replacement	No
Loop C 240° HL T/W	Weed Instrument Company Inc.	N8115	N/A	N/A	1993	Replacement	No
Loop C CL ³ T/W	Weed Instrument Company Inc.	N8121	N/A	N/A	1993	Replacement	No
Pipe Cap Loop C	Tioga Pipe Supply Co. Inc.	N/A	N/A	N/A	1993	Replacement	No

1 - Hot Leg (HL)
 2 - Thermowell (T/W)
 3 - Cold Leg (CL)
 4 - Crossover (Xover)

739-927-52
7K7243



PIPE SUPPLY COMPANY INC.
2450 WHEATSHEAF LANE, PHILADELPHIA, PA 19137

CUSTOMER PURCHASE ORDER CERTIFICATE OF CONFORMANCE

Description	Applies		Description	Applies	
	Yes	No		Yes	No
Material Manufacturers Certified Material Test Report (CMTR)	X		Report of treatments, examinations or tests not performed		X
Material Manufacturers Supplemental Certifications for Examinations and/or Tests	X		Manufacturers or subcontractors Radiographic Reader's Report		X
Material Manufacturers Subcontractors CMTR		X	Manufacturers or subcontractors Radiographic Film		X
Tioga Pipe Supply Co., Inc. Subcontractors CMTR for NDE		X	Partial Data Reports or other records for weld w/ filler metal pipe		X
Tioga Pipe Supply Co., Inc. Subcontractors CMTR for Destructive Testing		X	Tioga Pipe Supply Co., Inc. Certificate of Analyses and Tests		X

Material Ordered: 3" SCH 160 B.W. CAP - 4 PCS

- 1) ASME CODE SECTION II, 1974 EDITION WINTER 1976 ADDENDA FOR ASME SA403, WP304 MATERIALS.
- 2) ASME CODE SECTION III, 1974 EDITION WINTER 1976 ADDENDA ARTICLES NB-2000 AND NCA-3800 FOR CLASS 1 MATERIALS.
- 3) CP&L SPEC 065 REV. 1

Traceability:
F8053

Manufacturer:
CUSTOM ALLOY CORPORATION

Tioga Pipe Supply Co., Inc. affirms that the contents of their attached reports is correct and accurate and that this material was processed by Tioga Pipe Supply Co., Inc. in compliance with their Quality Systems Program. The material supplied conforms to the purchase order requirements.
Quality System Manual Revision 3 Dated 8-28-91 Category A

REFERENCE INFORMATION

Customer P.O. # 7K7243CT
Item # 01

Tioga Pipe Supply Co., Inc.
ASME Certificate of Authorization
(Materials) - Number QSC-467
Expiration Date - 11-5-94

Tioga S.O. # 808486P
Item # 1

15 *Laurel Lerman* 12-28-93
Quality Assurance Date

10444
11494



CUSTOM ALLOY CORPORATION

3 Washington Ave. • High Bridge, N.J. 08829

Heat Code: F8053 ✓

PRODUCT DESCRIPTION		CUSTOMER DATA	
Item <u>Cap</u>		Name <u>Tioga Pipe Supply Co., Inc.</u>	
Size <u>3 NPS</u>		P.O. No. <u>P 56369 N</u>	
Wall <u>Schedule 160</u>		Tag No. <u>7K7243CJ</u> ✓	
Grade <u>WP304 Seamless</u>		Job No. <u>N-2196-1</u>	

Specifications: ASME SA403 WP304 Seamless Section III Class 1; NCA3800, 1974 Edition through Winter 1976 Addenda; 10CFR50 Appendix B; CP&L 065 Rev. 1; TPS A1, Rev. 0. Paragraphs 1 - 15 and 19D

CHEMICAL ANALYSIS										
	C	Mn	P	S	Si	Cr	Ni	Mo	Cb	N
Ladle	.025	1.55	.030	.003	.60	18.14	9.10			.085
Check	.024	1.56	.027	.011	.62	18.70	8.90			.08

MECHANICAL PROPERTIES						
Yield Strength 2% Offset	Tensile Strength PSI	Elong. in 2" %4D	Red of Area %		Starting Material Control No.	Starting Material conforms to the chemical and tensile requirements of
41709 ✓	88191 ✓	54.3 ✓			B1647	Seamless Plate

MILL HEAT NO: 223874 Washington Steel

REMARKS: Material solution annealed at 1950 Degrees F (±25 Degrees F), held for one hour per inch (15 minutes minimum), and rapidly quenched in circulating water to below 800 Degrees F in less than three minutes.

Corrosion Testing performed in accordance with ASTM A262 Practice E - Satisfactory
100% Liquid Penetrant Inspected in accordance with Procedure Number 87-PT-2, Rev. 1
Satisfactory - Report Attached

CAC
 O.A. APPROVED
 DATE: 12/28/93
 O.A. TECHNICIAN

This material was produced in accordance with Custom Alloy Corporation Quality Assurance Program, Rev. 5, dated 9/1/92 which was audited and qualified by Tioga Pipe Supply Co., Inc. as conforming to the requirements of ASME Section III, Subarticle NCA-3800.

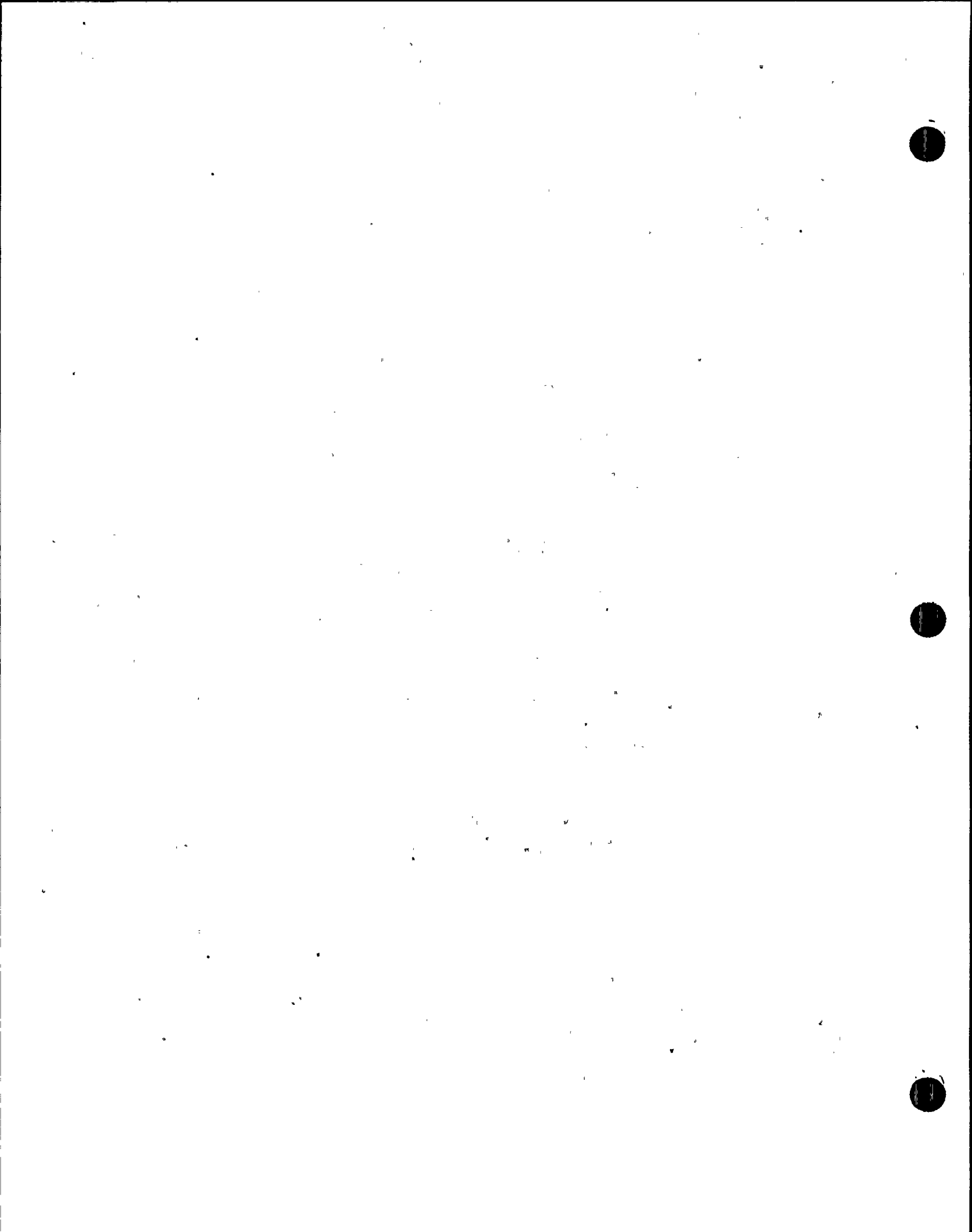
No welding or weld repair has been performed on this material.

*Results of upgrading in accordance with NCA3887.4(e)

The provisions of 10CFR21 apply to this order
12/28/93
Frederick N. Trach
Director of Quality

I certify the above product has been manufactured in accordance with all applicable parts of the above order and specifications.

CUSTOM ALLOY CORPORATION
 Authorized Signature



WEED INSTRUMENT CO., INC.

PAGE _____ OF _____

740-156-60
597657

CERTIFICATE OF CONFORMANCE

4
740-156-94
597657

CERT. NO. 3519

WEED S.O. 31855.1.1, 3.1 & 4.1
CUSTOMER CAROLINA POWER AND LIGHT COMPANY
P.O. 597657M-CC
ITEM NO. 1, 3 & 4

ITEM ITEM 1: MODEL N9004E-2B RTD ASSEMBLY WITH BAYONET STYLE CONNECTOR
ITEM 3: FAST TIME RESPONSE ASME SEC III, CLASS 1 THERMOWELL FOR USE IN RCS HOT LEG SCOOP
ITEM 4: FAST TIME RESPONSE ASME SEC III, CLASS 1 THERMOWELL FOR USE IN RCS COLD LEG

WEED DRWG. ITEM 1 DRAWING NO.: 0337-318355-001 REV. 0
ITEM 3 DRAWING NO.: 0417-318355-002 REV. 0
ITEM 4 DRAWING NO.: 0417-318355-003 REV. 0

QUANTITY ITEM 1: 14 ASSEMBLIES
ITEM 3: 11 THERMOWELLS
ITEM 4: 4 THERMOWELLS

IDENTITY ITEM 1 SERIAL NO.'S: N7910, N7911, N7914, N7918, N7919,
N7921, N7923, N7929, N7930, N7931,
N7933, N7934, N7935 & N7938.
ITEM 3 SERIAL NO.'S: N8105, N8106, N8107, N8108, N8109,
N8110, N8111, N8112, N8113, N8114 &
N8115.
ITEM 4 SERIAL NO.'S: N8120, N8121, N8122 & N8123.

SHIP DATE 2-16-94

APPL. SPEC. PER PURCHASE ORDER, EXCEPT AS RESOLVED PER LETTER DATED 2-16-94 FROM BILLY O'NEIL OF CP&L.

REMARKS. ITEM(S) SUPPLIED IN COMPLIANCE WITH WEED QA/QC REGULATION 100-1 REV. 2, ANSI N45.2 AND 10CFR50 APPENDIX B. ITEM(S) QUALIFIED TO IEEE 323-1974/1983 AND 344-1975 AND NUREG 0588 PER SWRI QUALIFICATION TEST REPORT 06-8680-003 REV. 1 AND EGS TEST REPORT PEI-TR-880701-04.



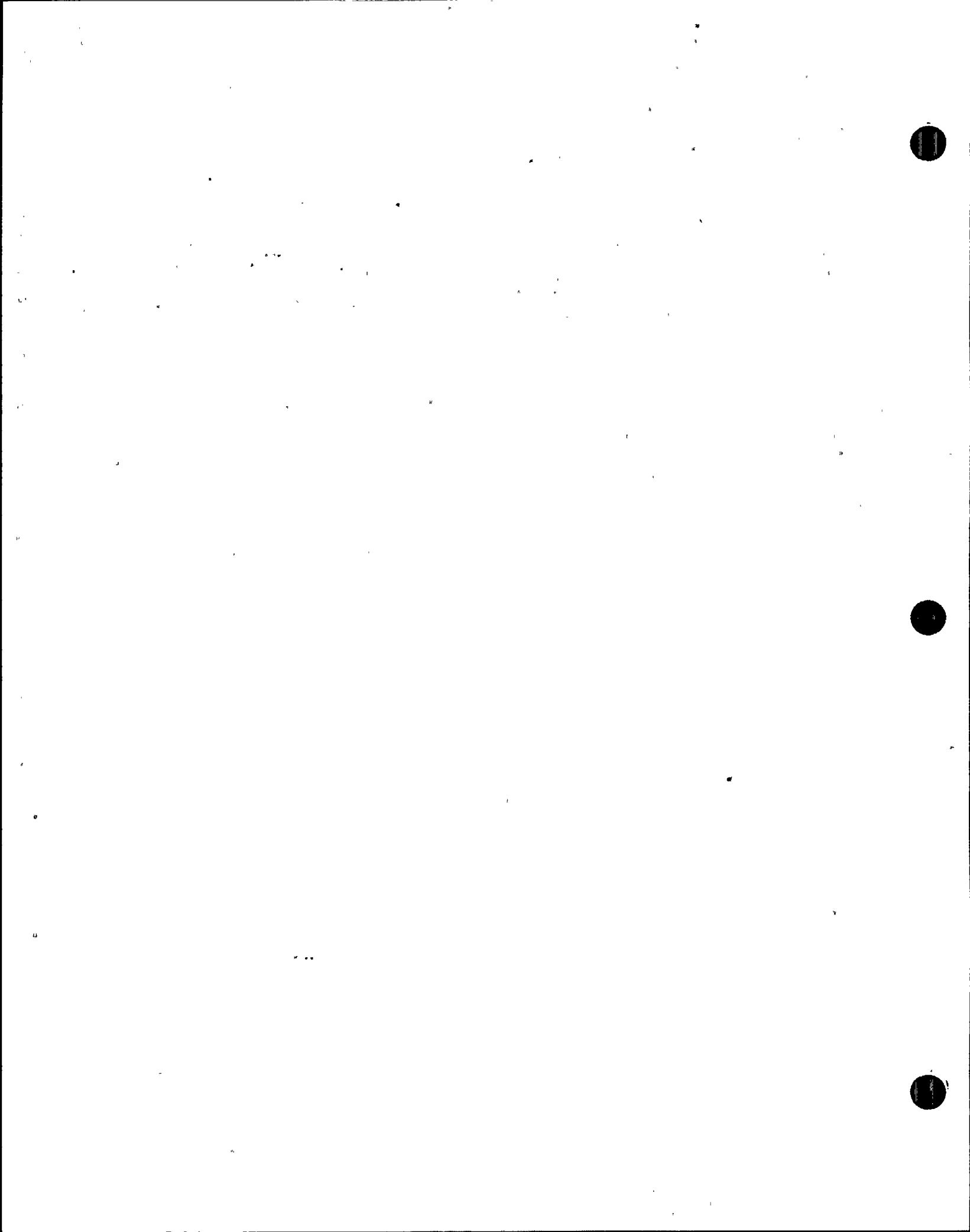
CERTIFICATE OF CONFORMANCE

CERT. NO. 3519 (CONTINUED)

I HEREBY CERTIFY THAT THE ITEMS LISTED ABOVE HAVE BEEN MANUFACTURED AND TESTED IN ACCORDANCE WITH THE PROCEDURE APPROVED BY THE CONTRACTING AGENCY AND ARE IN CONFORMANCE WITH ALL THE REQUIREMENTS OF THE APPLICABLE SPECIFICATION SHOWN ABOVE. ALL AVAILABLE TEST REPORTS AND RECORDS ARE ON FILE FOR EXAMINATION TO SUBSTANTIATE CONFORMANCE WITH APPLICABLE CALIBRATION REQUIREMENTS. IT IS FURTHER CERTIFIED THAT TO THE BEST OF MY KNOWLEDGE ANY ATTACHED DATA IS TRUE AND CORRECT.

WEED INSTRUMENT CO., INC.
P.O. BOX 300, 707 JEFFREY WAY
ROUND ROCK, TEXAS 78680
(512) 255-7043

APPROVED BY: [Signature]
NAME: RAYYANEH OSKOUI
TITLE: QUALITY SYSTEMS MGR.
DATE: 2-17-94



- | | |
|-------------------------------|--|
| 1. INSTALLED AND CERTIFIED BY | CAROLINA POWER & LIGHT CO., RALEIGH, N.C. |
| 2. INSTALLED FOR | CAROLINA POWER & LIGHT CO., RALEIGH, N.C. |
| 3. LOCATION OF INSTALLATION | SHEARON HARRIS NUCLEAR POWER PLANT, NEW HILL, N.C. |
| 4. SYSTEM IDENTIFICATION | REACTOR COOLANT RC |
- (SYSTEM NAME) (MFR SERIAL NO)
SEE SUPPLEMENT #7 - 1 PAGE N/A 55 1986
(DRAWING NUMBER) (CRN) (NB NO) (YEAR INST)

NUCLEAR COMPONENTS AND APPURTENANCES INSTALLED:

(A) COMPONENT OR APPURTENANCE	(B) NAME OF CERT HOLDER	(C) SERIAL NO	(D) CRN	(E) NATL BD NO	(F) YR BUILT
1-RC-P-00525-SN -1	FCC	5909451	N/A	6548	1982
1-RC-P-00526-SN -1	FCC	5909452	N/A	6566	1982
1-RC-P-00527-SN -1	CVI	7310-95282-204-X-1	N/A	584	1976
1-RC-P-00528-SN -1	CVI	7310-59282-204-X-2	N/A	589	1976
1-RC-P-00529-SN -1	CVI	7310-59282-204-X-3	N/A	590	1976
1-RC-R-00528-SN -1	CV&G	N56964-00-0050	N/A	222	1976
1-RC-R-00529-SN -1	CV&G	N56964-00-0088	N/A	374	1977
1-RC-R-00530-SN -1	CV&G	N56964-00-0052	N/A	224	1976
1-RC-V-00002-SN -1	KMC	HAQ1-4	N/A	29961	1980
1-RC-V-00007-SN -1	KMC	HAQ1-6	N/A	29720	1980
1-RC-V-00008-SN -1	KMC	HAQ1-14	N/A	29721	1980
1-RC-V-00009-SN -1	KMC	HAQ1-5	N/A	29962	1980
1-RC-V-00011-SN -1	KMC	HAQ1-8	N/A	29963	1980
1-RC-V-00016-SN -1	KMC	HAQ1-16	N/A	29722	1980
1-RC-V-00017-SN -1	KMC	HAQ1-24	N/A	29723	1980
1-RC-V-00019-SN -1	KMC	HAQ1-11	N/A	29964	1980
1-RC-V-00022-SN -1	KMC	HAQ1-13	N/A	29965	1980
1-RC-V-00028-SN -1	KMC	HAQ1-15	N/A	29966	1980
1-RC-V-00029-SN -1	KMC	HAQ1-17	N/A	29967	1980
1-RC-V-00030-SN -1	KMC	HAQ1-18	N/A	29968	1980
1-RC-V-00031-SN -1	KMC	HAJ2-6	N/A	28253	1980
1-RC-V-00109-SN -1	KMC	HAQ1-20	N/A	29969	1980
1-RC-V-00110-SN -1	KMC	HAQ1-21	N/A	29970	1980
1-RC-V-00111-SN -1	KMC	HAQ1-22	N/A	29971	1980
1-RC-V-00115-SN -1	KMC	HAQ1-25	N/A	29972	1980
1-RC-V-00116-SN -1	KMC	HAQ1-7	N/A	30905	1980
1-RC-V-00117-SN -1	KMC	HAQ1-19	N/A	30906	1980
1-RC-V-00124-SN -1	KMC	HAQ2-2	N/A	35866	1983
1-RC-V-00125-SN -1	KMC	HAQ2-4	N/A	35867	1983
1-RC-V-00126-SN -1	KMC	HAQ2-5	N/A	35868	1983
1-RC-V-00500-SN -1	WEC	03001GH9900002000S740014	N/A	W19724	1979
1-RC-V-00501-SN -1	WEC	03001GH9900002000S740016	N/A	W19726	1979
1-RC-V-00502-SN -1	WEC	03001GH9900002000S740017	N/A	W19727	1979
1-RC-V-00503-SN -1	WEC	03001GH9900002000S740013	N/A	W19196	1979
1-RC-V-00526-SN -1	WEC	03003GM99FNH02G00S740001	N/A	W26400	1983
1-RC-V-00527-SN -1	WEC	03003GM99FNH02G00S740002	N/A	W26401	1983
1-RC-V-00528-SN -1	WEC	03003GM99FNH02G00S740003	N/A	W26402	1983
1-RC-V-00540-SN -1	WEC	03001GH9900002000S740001	N/A	W19168	1979
1-RC-V-00541-SN -1	WEC	03001GH9900002000S740012	N/A	W19195	1979
1-RC-V-00542-SN -1	WEC	03001GH9900002000S740015	N/A	W19725	1979

CERTIFICATE HOLDER REP M.D. Heimer
ANI AS Data

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME-Code Rules

1. Manufactured by Westinghouse Electro-Mechanical Division Order No. S/O- 1H004
Cheswick Avenue, Cheswick, Pa. 15024 Order No. RA-23013-AR6-AR1
(Name & Address of Manufacturer)

2. Manufactured for Westinghouse PWR Systems' Division Order No. 546-NCJ-162148-BN
Nuclear Center Box 355, Pittsburgh, Pa. 15230
(Name and Address)

3. Owner Carolina Power & Light Co. - Bonsal, North Carolina

4. Location of Plant Shearon Harris No. 1 - Bonsal, North Carolina

5. Pump or Valve Identification 03001GH9900002000S740015
Valve I.D. - 3688
3" - 2035 Manual Operated Gate Valve
(Brief description of service for which equipment was designed)

(a) Drawing No. 8377D97 Prepared by Westinghouse Electric Corporation
Ref. Dwg. 8378D41
(b) National Board No. W19725

6. Design Conditions 2500 psi 650 °F
(Pressure) (Temperature)

7. The material, design, construction, and workmanship complies with ASME Code Section III. Class I
Edition 1974, Addenda Date S74, Case No. 1553-1, 1649

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
Body	S/N 6649.	SA182 GR F304	Stl Imp & Frq Co Ht. No. 75431-A1
Bonnet	S/N 6764	SA182 GR F304	Stl Imp & Frq Co Ht. No. 75429-A1
Disc	S/N 5467	SA182 GR F304	Stl Imp & Frq Co Ht. No. 74667-A1
Stem	S/N 3681	SA564 GR 630	Arc Mfg Co Ht. No. 75858

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) also is 8 1/2" x 11", (2) information in items 1, 2, 3a and 3b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

211 5/18/79

007312-976



FORM NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Main Flange Studs	SA453 GR 660	Plainville Mfg Co	Ht. No. 15156
Main Flange Nuts	SA194 GR 6	Vitco Nuclear	Ht. No. 75368
(d) Other Parts			

8. Hydrostatic test 6284 psi.

CERTIFICATION OF DESIGN

Design information on file at Westinghouse Electro-Mechanical Division
 Stress analysis report on file at Westinghouse Electro-Mechanical Division
 Design specifications certified by Henry P. Leonard (1) Prof. Eng. State Pa. Reg. No. 23938-E
 Stress analysis report certified by Harry E. Eminger (1) Prof. Eng. State Pa. Reg. No. 10729-E
 (1) Signature not required. List name only.

We certify that the statements made in this report are correct.

Date 4-16 19 79 Signed Westinghouse Electric
Electro-Mechanical Div. ny *Mike Bonifacio*
 (Manufacturer)

Certificate of Authorization No. 1385 expires May 14, 1979

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of Pennsylvania and employed by Lumbermens Mutual Casualty Co. of Long Grove, Illinois have inspected the equipment described in this Data Report on 4-17 19 79, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-17 19 79

Paul L. Savie
 (Inspector) Commission UB4325 Pa 1760
 (National Board, State, Province and No.)

0073121977

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Westinghouse Electro-Mechanical Division S/O- 1H004
Cheswick Avenue, Cheswick, Pa. 15024 Order No. RA-23013-AR6-AR1
(Name & Address of Manufacturer)

2. Manufactured for Westinghouse PWR Systems Division
Nuclear Center Box 355, Pittsburgh, Pa. 15230 Order No. 546-NCJ-162148-BN
(Name and Address)

3. Owner Carolina Power & Light Co. - Bonsal, North Carolina

4. Location of Plant Shearon Harris No. 1 - Bonsal, North Carolina

5. Pump or Valve Identification 03001GH9900002000S740013
Valve I.D. - 3688
3" - 2035 Manual Operated Gate Valve
(Brief description of service for which equipment was designed)

(a) Drawing No. 8377D97 Prepared by Westinghouse Electric Corporation
 Ref. Dwg. 8378D41

(b) National Board No. W19196

6. Design Conditions 2500 psi 650 °F
(Pressure) (Temperature)

7. The material, design, construction, and workmanship complies with ASME Code Section III, Class I
 Edition 1974, Addenda Date S74, Case No. 1553-1, 1649

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
Body	S/N 6777	SA182 GR F304	Stl Imp & Frg Co Ht. No. 75434-A2
Bonnet	S/N 6817	SA182 GR F304	Stl Imp & Frg Co Ht. No. 75429-A1
Disc	S/N 5516	SA182 GR F304	Stl Imp & Frg Co Ht. No. 74667-A1
Stem	S/N 3673	SA564 GR 630	Arc Mfg Co Ht. No. 75858

ASME
SECTION III

*Supplemental sheets in form of flats, sketches or drawings may be used provided (1) size is 8 1/2" x 11", (2) information in items 1, 2, 5a and 5b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

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Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Main Flange Studs	SA453 GR 660	Plainville Mfg	Ht. No. 15156
Main Flange Nuts	SA194 GR 6	Vitco Nuclear	Ht. No. 75368
(d) Other Parts			

8. Hydrostatic test 6284 psi.

CERTIFICATION OF DESIGN

Design information on file at Westinghouse Electro-Mechanical Division
 Stress analysis report on file at Westinghouse Electro-Mechanical Division
 Design specifications certified by Henry P. Leonard (1) Prof. Eng. State Pa. Reg. No. 23938
 Stress analysis report certified by Harry E. Eminger (1) Prof. Eng. State Pa. Reg. No. 10729
 (1) Signature not required. List name only.

We certify that the statements made in this report are correct.
 Date 4-23 19 79 Signed Westinghouse Electric
Electro-Mechanical Div. By [Signature]
 (Manufacturer)
 Certificate of Authorization No. 1385 expires May 14, 1979

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of Pennsylvania and employed by Lumbermens Mutual Casualty Co. of Long Grove, Illinois have inspected the equipment described in this Data Report on 4-25 19 79, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.
 By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-25 19 79

[Signature] (Inspector) Commission NB 4325 Pa 1760
 (National Board, State, Province and No.)

0 0 7 3 1 2 2 0 1 8



FORM NPV-1 N CERTIFICATE HOLDERS DATA REPORT FOR NUCLEAR PUMPS OR VALVES

As Required by the Provisions of the ASME Code, Section VIII, Div. 1

Sheet 1 of 2

1. Manufactured by Kayloval Manufacturing Corp., Pittsburgh, PA (412-63607)
 (Name and Address of N Certificate Holder)
 2. Manufactured for Energy Services, Inc., New York, NY
 (Name and Address of Purchaser or Owner)
 3. Location of Installation Chemical Process Plant, New Hill, NC
 (Name and Address)
 4. Pump or Valve Valve Nominal Inlet Size 2" (inch) Outlet Size 2" (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	Globe HAQ1-11 ✓		N/A	SH-D-9909X02E716-(1)	1	29961	1980
(2)	Globe HAQ1-5 ✓		N/A	SH-D-9909X02E716-(1)	1	29962	1980
(3)	Globe HAQ1-8 ✓		N/A	SH-D-9909X02E716-(1)	1	29963	1980
(4)	Globe HAQ1-11 ✓		N/A	SH-D-9909X02E716-(1)	1	29964	1980
(5)	Globe HAQ1-13 ✓		N/A	SH-D-9909X02E716-(1)	1	29965	1980
(6)	Globe HAQ1-15 ✓		N/A	SH-D-9909X02E716-(1)	1	29966	1980
(7)	Globe HAQ1-17 ✓		N/A	SH-D-9909X02E716-(1)	1	29967	1980
(8)	Globe HAQ1-18 ✓		N/A	SH-D-9909X02E716-(1)	1	29968	1980
(9)	Globe HAQ1-20 ✓		N/A	SH-D-9909X02E716-(1)	1	29969	1980
(10)	Globe HAQ1-21 ✓		N/A	SH-D-9909X02E716-(1)	1	29970	1980

5. Station Valve for WF1, WF3 Fluids
 (Brief description of service for which equipment was designed)

6. Design Conditions 2485 psi 650 °F or Valve Pressure Class 1513# (1)
 (Pressure) (Temperature)
 7. Cold Working Pressure 3031 psi at 100°F.
 8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
Body	HG-P-10501E716-1-(1) ✓	SA182, F316	Mat'l Code HAQ
Yoke	WV-9910-31E-(1)	SA195 ✓	Mat'l Code ACAP

REVIEWED BY [Signature]
 DATE 1/21
 ISSUED TO [Signature]
 BY [Signature]

(1) For manually operated valves only.
 * Supplemental sheets in form of lists, sketches or drawings may be used provided (1) sheets are 11" x 17", (2) information in items 1, 2 and 3 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
(d) Other Parts			
9909-9-(1)Z	SA179, Type 316	Carpenter	Mat. I Code 1A5
9909-3-(1)Z	SA179, Type 316	Joslyn	Mat. I Code 1A5

9. Hydrostatic test 5447 psi. Disk Differential test pressure 3631 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974
 Addenda Summer 1976 (Date), Code Case No. N/A, Date June 4, 1980
 Signed Kerotest by [Signature]
 (N Certificate Holder)
 Our ASME Certificate of Authorization No. 1902 to use the N symbol expires 10/31/80
 (N) (Date)

CERTIFICATION OF DESIGN

Design information on file at Kerotest Manufacturing Corp.
 Stress analysis report (Class 1 only) on file at Kerotest Manufacturing Corp.

Design specifications certified by (1) <u>A. C. Chen</u>	REVIEWED BY <u>[Signature]</u>
PE State <u>DC</u> Reg. No. <u>3191</u>	ASASCO ENGINEERING
Stress analysis certified by (1) <u>R. G. Visalli</u>	DESIGNED BY <u>[Signature]</u>
PE State <u>PA</u> Reg. No. <u>19068-E</u>	ASASCO VQA REP.

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by The Hartford Steam Boiler of Hartford, Connecticut have inspected the pump, or valve, described in this Data Report on 6/6/80 19 5-C, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6/6/80 19 5-C
[Signature] (Inspector) Commissions PA 110 AB 1754
 (Nat'l Bd., State Prov. and Loc)

sc. rinet
 33394
 13714

R.I. Co.

SUPPLEMENT SHEET
FORM NPV-1

1. Manufactured by Kerotest Manufacturing Corp. NU-68607
2. Manufactured for Carolina Power & Light Co.

Manufacturers' Serial No.	Drawing No.	Class	Nat'l Board No.
(11) HAQ1-22 ✓	SH-D-9909X02BW16-(1)	1	29971
(12) HAQ1-25	SH-D-9909X02BW16-(1)	1	29972
(13) <i>RISK W/L 150</i>			
(14)			
(15)			
(16)			
(17)			
(18)			
(19)			
(20)			
(21)			
(22)			
(23)			
(24)			
(25)			

5395
13714

5. (Service) Station Valve for WFL, WF3 Fluids

REVISION	BY <i>7/23</i>
TRASCO INDUSTRIES	
REVIEW SIGNATURE	
<i>7/23/68</i>	
TRASCO VBA 110	

FORM NPV-1 N CERTIFICATE HOLDERS DATA REPORT FOR NUCLEAR PUMPS OR VALVES
 As Required by the Provisions of the ASME Code, Section III, Div. 1

1. Manufactured by Kerotest Manufacturing Corp., Pittsburgh, PA (NU-68607)
(Name and Address of N Certificate Holder)
 2. Manufactured for Ebasco Services, Inc., New York, NY
(Name and Address of Purchaser or Owner)
 3. Location of Installation Sixaron Harris Nuclear Plant, New Hill, NC
(Name and Address)
 4. Pump or Valve Valve Nominal Inlet Size 2" Outlet Size 2"
(inch) (inch)

(a) Model No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1) Globe	HAQ1-7 /	N/A	SH-D-9909X02BW16-(1)	1	30905	1980
(2) Globe	HAQ1-19 /	N/A	SH-D-9909X02BW16-(1)	1	30906	1980
(3)						
(4)						
(5)						
(6)						
(7)						
(8)						
(9)						
(10)						

REVIEWED
 8-14-80
 EBASCO ENGINEERING
 NEW YORK, NY
 [Signature]
 EBASCO VQA REP.

5. Station Valves for WF1, WF3 Fluids
(Brief description of service for which equipment was designed)

6. Design Conditions 2485 psi 650 °F or Valve Pressure Class 1513# (1)
(Pressure) (Temperature)
 7. Cold Working Pressure 3631 psi at 100°F.
 8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
BG-P10501BW16-1-(1)Z	SA182, F316 ✓	McWilliams	Mat'l Code HAQ
M/P-9910-31P-(1)	SA105 ✓	McWilliams	Mat'l Code ACAP

Body Yoke

(1) For manually operated valves only.
 * Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

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Mark No.	Material Spc. No.	Manufacturer	Remarks
(c) Bolting			
(d) Other Parts			
Disc	9909-9-(1)Z	SA1179, Type 316	Carpenter
Bonnet	9909-3-(1)Z	SA1179, Type 316	Joslyn
			Mat'l Code JAR
			Mat'l Code EAL

9. Hydrostatic test: 5447 psi. Disk Differential test pressure: 3631 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components. Section III, Div. 1, Edition 1974, Addenda Summer 1976, Code Case No. N/A, Date: July 22, 1980

Signed Kerotest (Data) by Joseph C. Tuite (In Certificate Holder)

Our ASME Certificate of Authorization No. 1902 to use the N (N) symbol expires 4/25/83 (Date)

CERTIFICATION OF DESIGN

Design information on file at Kerotest Manufacturing Corp.
 Stress analysis report (Class T only) on file at Kerotest Manufacturing Corp.

Design specifications certified by (1) A. C. Chen
 PE State NC Reg. No. 6494

Stress analysis certified by (1) R. G. Visalli
 PE State PA Reg. No. 19068-E

(1) Signature not required. List name only.

REVIEWED 8-14-80

ASME INSPECTOR

SEAL VERIFIED BY [Signature]

ASCO VCA REP.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by The Hartford Steam Boiler of Hartford, Connecticut have inspected the pump, or valve, described in this Data Report on 7/25 19 80, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/25 1980
RIS Kuny (Inspector) Commissions Pa 150 NB7734 (Nat'l Bd., State, Prov. and No.)

U 3-7-1-4-3-2-6-3-6

I&I Co

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*
 As Required by the Provisions of the ASME Code, Section III, Div. 1 Sht. 1 of 1

1. Manufactured by Kerotest Manufacturing Corp., Pittsburgh, PA (NU-68607)
(Name and Address of N Certificate Holder)
 2. Manufactured for Enasco Services, Inc., New York, NY
(Name and Address of Purchaser or Owner)
 3. Location of Installation Sheraton Harris Nuclear Plant, New Hill, NC
(Name and Address)
 4. Pump or Valve Valve Nominal Inlet Size 2" Outlet Size 2"
(inch) (inch)

(a) Model No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1) Globe	HAQ2-2 ✓	N/A	SH-D-9909X02BW16-(1)	1	35866	1983
(2) Globe	HAQ2-4 ✓	N/A	SH-D-9909X02BW16-(1)	1	35867	1983
(3) Globe	HAQ2-5 ✓	N/A	SH-D-9909X02BW16-(1)	1	35868	1983
(4)						
(5)						
(6)						
(7)						
(8)						
(9)						
(10)						

5. Station Valves for WF1, WF3 Fluids
(Brief description of service for which equipment was designed)

6. Design Conditions 2485 psi 650 °F or Valve Pressure Class 1513# (1)
(Pressure) (Temperature)
 7. Cold Working Pressure 3631 psi at 100°F.
 8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
Body - HAQ	SA182, F316	McWilliams	
Yoke - JSF	SA105	McWilliams	

APPROVED BY [Signature]
 DATE 10-15-87
 ASME, USA 010

(1) For manually operated valves only.
 * Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

2 0 1 5 2 3 1 4 0

10/17

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
(d) Other Parts			
Disc - AHG	SA479, Type 316	Joslyn	
Bonnet - FAL	SA479, Type 316	Joslyn	

9. Hydrostatic test 5500 psi. Disk Differential test pressure 3700 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974 Addenda Summer 1976; Code Case No. N/A Date October 3, 1983
 Signed Kerotest Manufacturing Corp. by [Signature]
(N Certificate Holder)
 Our ASME Certificate of Authorization No. 1902 to use the N symbol expires 4/25/86
(N) (Date)

CERTIFICATION OF DESIGN

Design information on file at: Kerotest Manufacturing Corp.
 Stress analysis report (Class 1 only) on file at: Kerotest Manufacturing Corp.

REVIEWED BY	<u>[Signature]</u>
DATE	<u>10-18-83</u>
DESIGNED BY	<u>[Signature]</u>

Design specifications certified by (1) A. C. Chen
 PE State NC Reg. No. 6494
 Stress analysis certified by (1) S. J. Caroleo
 PE State PA Reg. No. 17144-E

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by The Hartford Steam Boiler I & T Co. of Hartford, Connecticut have inspected the pump, or valve, described in this Data Report on 10-4 19 83, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10-4 19 83
[Signature] (Inspector) Commissions NB 79124
(Nat'l Bd., State, Prov. and No.)

037143 2018

[Handwritten mark]

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 06/29/94
Name
P.O. Box 1551, Raleigh, N. C. 27602-1551 Sheet 1 of 1
Address
 2. Plant Shearon Harris Nuclear Power Plant Unit 1
Name
P.O. Box 165, New Hill, N. C. 27562-0165 94-AGCR1 & PCR-7296
Address Repair Organization P.O. No., Job No., etc.
 3. Work Performed by Carolina Power and Light Company Type Code Symbol Stamp N/A
Name
New Hill, N.C. Authorization No. N/A
Address Expiration Date N/A

4. Identification of System Reactor Coolant System (2005)

5. (a) Applicable Construction Code ASME SECT. III 1974 Edition, W 1976 Addenda, _____ Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Isolation Valve	Kerotest Mfg. Co.	HAQ1-14	29721	1RC-7 1RC-V8SN-1	1980	Repaired	Yes
Seal Cap	Kerotest Mfg. Co.	AUL4-2	38640	N/A	1992	Replacement	No

7. Description of Work Installed cap on valve bonnet to isolate a packing leak.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Manufacturer's data reports attached. Although a pressure test was not required (IWA-4400(b)(3)) the valve was included
Applicable Manufacturer's Data Reports to be attached
within the Reactor Coolant System hydro. boundary conducted during RFO5, EPT-159 & EST-201.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the
ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp None

Certificate of Authorization No. N/A

Expiration Date N/A

Signed [Signature]

Mgr ET

Date 7/8

19 94

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the
State or Province of North Carolina and employed by The Hartford Steam Boiler Inspection and Insurance Company of
One State Street, Hartford, Connecticut 06102 have inspected the components described
in this Owner's Report during the period 12/02/92 to 05/12/94, and state that
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
this inspection.

[Signature]

Inspector's Signature

Commissions NC 1042

National Board, State, Province, and Endorsements

Date July 25 19 94

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES IRCV85U-

As Required by the Provisions of the ASME Code, Section Div. 1

Sheet 1 of 1

1. Manufactured by Kerotest Manufacturing Corp., Pittsburgh, PA (NU-68607)
(Name and Address of N Certificate Holder)
2. Manufactured for Basco Services Inc, New York, NY
(Name and Address of Purchaser or Owner)
3. Location of Installation Shearon Harris Nuclear Plant, New Hill, NC
(Name and Address)
4. Pump or Valve Valve Nominal Inlet Size 2" Outlet Size 2"
(inch) (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	Globe	HAQ1-6	N/A	SH-D-9909X02-(1)	1	29720	1980
(2)	Globe	HAQ1-14	N/A	SH-D-9909X02-(1)	1	29721	1980
(3)	Globe	HAQ1-16	N/A	SH-D-9909X02-(1)	1	29722	1980
(4)	Globe	HAQ1-24	N/A	SH-D-9909X02-(1)	1	29723	1980
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. Station Valve for WFL, WF3 Fluids
(Brief description of service for which equipment was designed)

6. Design Conditions 2485 psi 650 °F or Valve Pressure Class 1513# (1)
(Pressure) (Temperature)

7. Cold Working Pressure 3031 psi at 100°F.

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
HG/P-9909X-1-(1)Z	SA182, F316	McWilliams	Mat'l Code UAG
M/P-9910-31P-(1)	SA105	McWilliams	Mat'l Code ACAP

REVIEWED BY YES NO

BY ASCO ENGINEER

DATE 7/1/80

J. O. ...
 ASCO VISA

(1) For manually operated valves only.

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

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3 3 2 7

body
plate

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
(d) Other Parts			
9909-9-(1)Z	SA479, Type 316 ✓	Carpenter	Mat'l Code JAS, JAR
9909-3-(1)Z	SA479, Type 316 ✓	Joslyn	Mat'l Code EAL

9. Hydrostatic test 5447 psi. Disk Differential test pressure 3631 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. I, Edition 1974
 Addenda Summer 1976, Code Case No. N/A, Date May 28, 1980
 Signed Kerotest by James J. Zolte
 (N Certificate Holder)
 Our ASME Certificate of Authorization No. 1902 to use the N symbol as 10/31/80
 (N) (Date)

CERTIFICATION OF DESIGN

Design information on file at Kerotest Manufacturing Corp.
 Stress analysis report (Class 1 only) on file at Kerotest Manufacturing Corp.
 Design specifications certified by (1) A. C. Chen
 PE State NC Reg. No. 6404
 Stress analysis certified by (1) R. G. Visalli
 PE State PA Reg. No. 19068-E
 (1) Signature not required. List name only.

REVIEWED BY: [Signature]
 EBASCO ENGINEER
 REVIEW VERIFIED BY: [Signature]
 EBASCO VQA REP

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by The Hartford Steam Boiler & I Co. of Hartford, Connecticut have inspected the pump, or valve, described in this Data Report on 5/28 1980, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.
 By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date 5/28 1980
R. G. Visalli (Inspector) Commissions NP27234 Pa. 150
 (Nat'l Bd., State, Prov. and No.)

Disc onnet

3 3 2 8

0 8 7 1 2 3



**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL
NUCLEAR PARTS AND APPURTENANCES***

Value Cap
38640

As Required by the Provisions of the ASME Code, Section III
Not To Exceed One Day's Production

*CORRECTED COPY 10/08/92

Pg. 1 of 1

1. Manufactured and certified by Kerotest Mfg. Corp., 2525 Liberty Ave., Pgh, Pa 15222 (C186975)
(Name and address of NPT Certificate holder)
2. Manufactured for Carolina Power & Light, Raleigh, NC 27602
(Name and address of purchaser)
3. Location of installation Harris Nuclear Plant, OPS RCVG Bldg, SR 1134, New Hill, NC 27562
(Name and address)
4. Type 9909-17-(1) SA479, 316 75,000 N/A 1992
(drawing no.) (mat. spec. no.) (stress strength) (CRN) (year built)
5. ASME Code, Section III: 1974 Summer 1976 1 N/A
(section) (issuance date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no.)
7. Remarks: P.O. #7A0492BT, Item #2

*CORRECTION: Added National Board Numbers 38640 and 38641

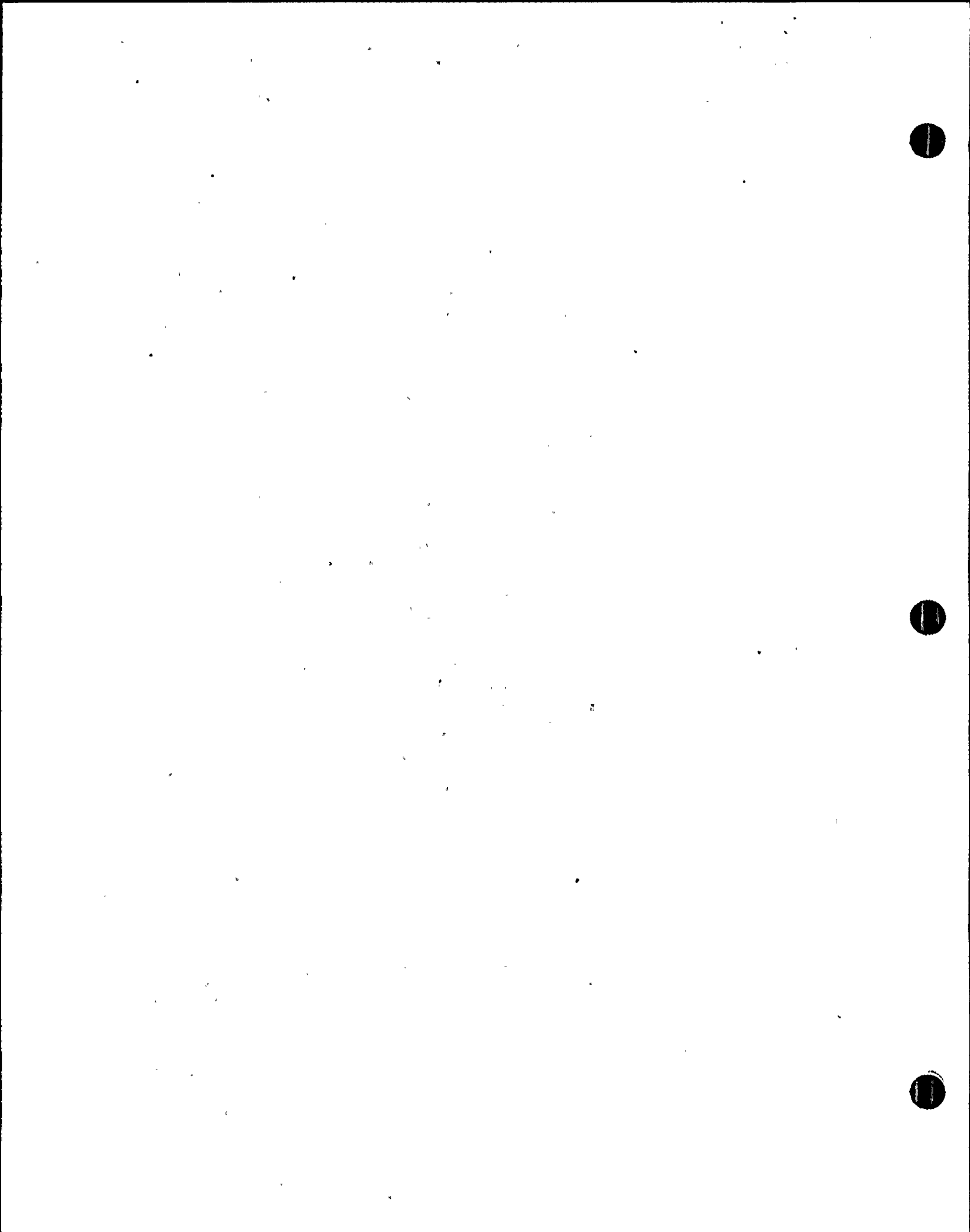
8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) <u>AUL4-2</u>	<u>38640</u>
(2) <u>AUL4-3</u>	<u>38641</u>
(3)	
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board Number in Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

10. Design pressure 2485 psi. Temp. 650 °F Hydro. test pressure 5500 at temp. °F
(when applicable)

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2" x 11", (2) information in items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



FORM N-2 (back)

Mfr. Serial No. See No. 9

CERTIFICATION OF DESIGN

Design specifications certified by N/A (when applicable) P.E. State N/A Reg. no. N/A
Design report* certified by N/A (when applicable) P.E. State N/A Reg. no. N/A

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Spare Part Seal Cap conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. 1903 Expires 4-25-95
Date 10/08/92 Name Kerotest Manufacturing Corp. Signed Gen Sheridan
(NPT Certificate holder) (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Hartford Steam Boiler I&I Co. of Hartford, CT have inspected these items described in this Data Report on 10/8/92 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date 10/14/92 Signed M. Riccardi Commissions NO 7912N 0A 2192N
(Authorized Inspector) (Natl. Bd. Inscr. of) (entire state or prov. and no.)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 06/30/94
Name
- P.O. Box 1551, Raleigh, N. C. 27602-1551 Sheet 1 of 1
Address
2. Plant Shearon Harris Nuclear Power Plant Unit 1
Name
- P.O. Box 165, New Hill, N. C. 27562-0165 94-AADJ1
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power and Light Company Type Code Symbol Stamp N/A
Name
- New Hill, N.C. Authorization No. N/A
Address Expiration Date N/A
4. Identification of System Pressurizer System (2050)
5. (a) Applicable Construction Code ASME SECT. III 1974 Edition, W 1976 Addenda, _____ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Pressurizer Safety Valve	Crosby	N56964-00-0088	374	1RC-123 1RC-R530SN-1	1977	Replaced	Yes
Pressurizer Safety Valve	Crosby	N56964-00-0046	207	Same	1976	Replacement	Yes

7. Description of Work Replaced old valve to allow it to be pressure tested at Wylie Labs.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 2280 psi Test Temp. Nominal °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Manufacturer's data reports attached. Old valve replaced to allow it to be tested at Wylie Labs. Hydro was performed
Applicable Manufacturer's Data Reports to be attached
in lieu of testing allowed per IWA-5214(e), as a matter of convenience as an RCS hydro had been required for other reasons.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the
ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp None

Certificate of Authorization No. N/A

Expiration Date N/A

Signed [Signature]

Mgr ET

Date 7/13, 19 94

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the
State or Province of North Carolina and employed by The Hartford Steam Boiler Inspection and Insurance Company of
One State Street, Hartford, Connecticut 06102 have inspected the components described
in this Owner's Report during the period 12/02/92 to 05/12/94, and state that
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
this inspection.

[Signature]

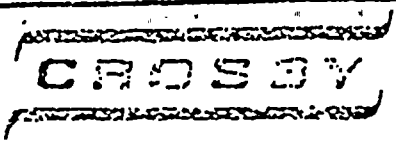
Inspector's Signature

Commissions NC 1042

National Board, State, Province, and Endorsements

Date July 25 19 94

NSL 964-00-0046



CROSBY VALVE & GAGE COMPANY (2)
WRENTHAM, MASS

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES
As required by the Provisions of the ASME Code Rules
Q.C.-44C

DATA REPORT
Safety and Safety Relief Valves

1. Manufactured by Crosby Valve & Gage Company, 43 Kendrick Street, Wrentham, Ma. 02093
 Assem. No. 56964 1-36 Name and Address

Model No HB-86EP Order No N303148 Contract Date 4-4-73 National Board No. 207
Westinghouse Electric Corp., Nuclear

2. Manufactured For Energy Systems, Pittsburgh, Pa. 15230 Order No. 546-CCK-178348-BN
 Name and Address

3. Owner Carolina Power & Light Co., Shearon Harris Nuclear Power Plant #1
 Name and Address

4. Location of Plant Bonsal, North Carolina

5. Valve Identification 6RV88MSB Serial No N56964-00-0046 Drawing No DS-C-56964 Rev. C
 Type Safety Orifice Size 2.154 Pipe Size - Inlet 6 Outlet 6
Safety, Safety Relief, Pilot, Power Actuated Inch Inch Inch Inch
 M 650° F

6. Set Pressure (PSIG) 2485 Rated Temperature

Stamped Capacity 420000 lbs./hr. 3 % Overpressure 5% Blowdown (PSIG) 125

Hydrostatic Test (PSIG) Inlet 4575 Complete Valve 750 psig

7. The material, design, construction and workmanship comply with ASME Code, Section III.
 Class 1 Edition 1971, Addenda Date Winter 1972 Case No. ---

Pressure Containing or Pressure Retaining Components

a. Bar Stock & Forgings	Serial No. Identification	Material Specification Including Type or Grade
Body	<u>N90490-33-0041</u>	<u>ASTM-A182-71 F316</u> <u>ASME-SA182 F316</u>
Bonnet	<u>N90353-38-0082</u>	<u>ASTM-A105 Gr. 2</u> <u>ASME-SA105 Gr. 2</u>
b.		
Support Rods	<u>N90555-39-0073</u>	<u>ASTM-A182-71 F316</u> <u>ASME-SA182 F316</u>
Nozzle	<u>N90555-39-0073</u>	<u>ASTM-A182-71 F316</u> <u>ASME-SA182 F316</u>
Disc Holder K57220-36-0057	<u>N90553-32-0039</u>	<u>ASTM-A105 Gr. 2</u> <u>ASME-SA105 Gr. 2</u>
Spring Washers K56380-40-0052	<u>N90350-33-0102</u> <u>N90350-33-0070</u>	<u>ASTM-A105 Gr. 2</u> <u>ASME-SA105 Gr. 2</u>
Adjusting Bolt	<u>N90351-31-0028</u>	<u>ASTM-A193 Gr. 7B</u> <u>ASME-SA193 Gr. 7B</u>
Spindle Point K56381-40-0097	<u>N90154-30-0055</u>	<u>ASTM-A193 Gr. 7B</u> <u>ASME-SA193 Gr. 7B</u>
Spindle Ball	<u>N90355-0097</u>	<u>ASTM-A276-73 Type 304</u>
Disc Insert	<u>N90349-36-0107</u>	<u>Haynes Stellite No. 6B</u>

0373103019

	Serial No. or Identification	Material Specification Including Type and Grade
c. Spring	<u>NX-2761-0036</u>	<u>ASTM-A304 Gr. 304H</u>

d. Bolting	_____	_____
------------	-------	-------

e. Other Parts such as Pilot Components _____

Bonnet Stud	<u>100987</u>	<u>ASTM-A453-70 Gr. 660</u> <u>ASME-SA453 Gr. 660</u>
Bonnet Stud Nut	<u>89997</u>	<u>ASTM-A193-71 Gr. B6</u> <u>ASME-SA193 Gr. B6</u>
Inlet Stud	<u>N90488-0645 thru 0656</u>	<u>ASTM-A453-70 Gr. 660</u> <u>ASME-SA453 Gr. 660</u>
Inlet Stud Nut	<u>N90489-0645 thru 0656</u>	<u>ASTM-A193-71 Gr. B6</u> <u>ASME-SA193 Gr. B6</u>

We certify that the statements made in this report are correct.

Date 4-6 19 76 Signed Crosby Valve & Gage Co. By [Signature]
 Manufacturer QA Manager

Certificate of Authorization No. 926 expires October 28, 1977

Design information on file at Crosby Valve & Gage Co., Wrentham, Ma.
 Design Report No. EC-155.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Mass. and employed by Factory Mutual Systems*, Norwood, Mass. have inspected the equipment described in this Data Report on _____ 19____ and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-8 19 76 [Signature] NB 7325
 Inspector's Name Commission No. EC 2153
 National Board, State, Province and Territory

*Arkwright-Boston Manufacturers Mutual Insurance Company - Mutual Boiler & Machinery Division.

0 5 7 3 1 3 0 2 0

N56964-00-0088

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MASS.

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES
As required by the Provisions of the ASME Code Rules

Q.C.-44C

DATA REPORT
Safety and Safety Relief Valves

1. Manufactured By Crosby Valve & Gage Co., 43 Kendrick St., Wrentham, MA 02093
Name and Address

Model No. HB-BP-86 Order No. N303167 Contract Date 4-4-73 National Board No. 374
Westinghouse Electric Corp., Nuclear Energy Systems

2. Manufactured For P.O. Box 355, Pittsburgh, PA 15230 Order No. 546-CCK-178367-BN
Name and Address

3. Owner Carolina Power & Light Co., Shearon Harris Nuclear Power Plant #3
Name and Address

4. Location of Plant Bonsal, North Carolina

5. Valve Identification 6RV88MSB Serial No. N56964-00-0088 Drawing No. DS-C-56964 Rev. C

Type Safety Orifice Size M Pipe Size - - Inlet 6 Outlet 6
Safety, Safety Relief, Pilot, Power Actuated Inch Inch Inch Inch

6. Set Pressure (PSIG) 2485 650 F
Ra. Temperature

Stamped Capacity 420006 LBS./HR. SAT. = 3 % Overpressure Blowdown (PSIG)

Hydrostatic Test (PSIG) Inlet 4575 Complete Valve 750 PSIG

7. The material, design, construction and workmanship comply with ASME Code, Section III.

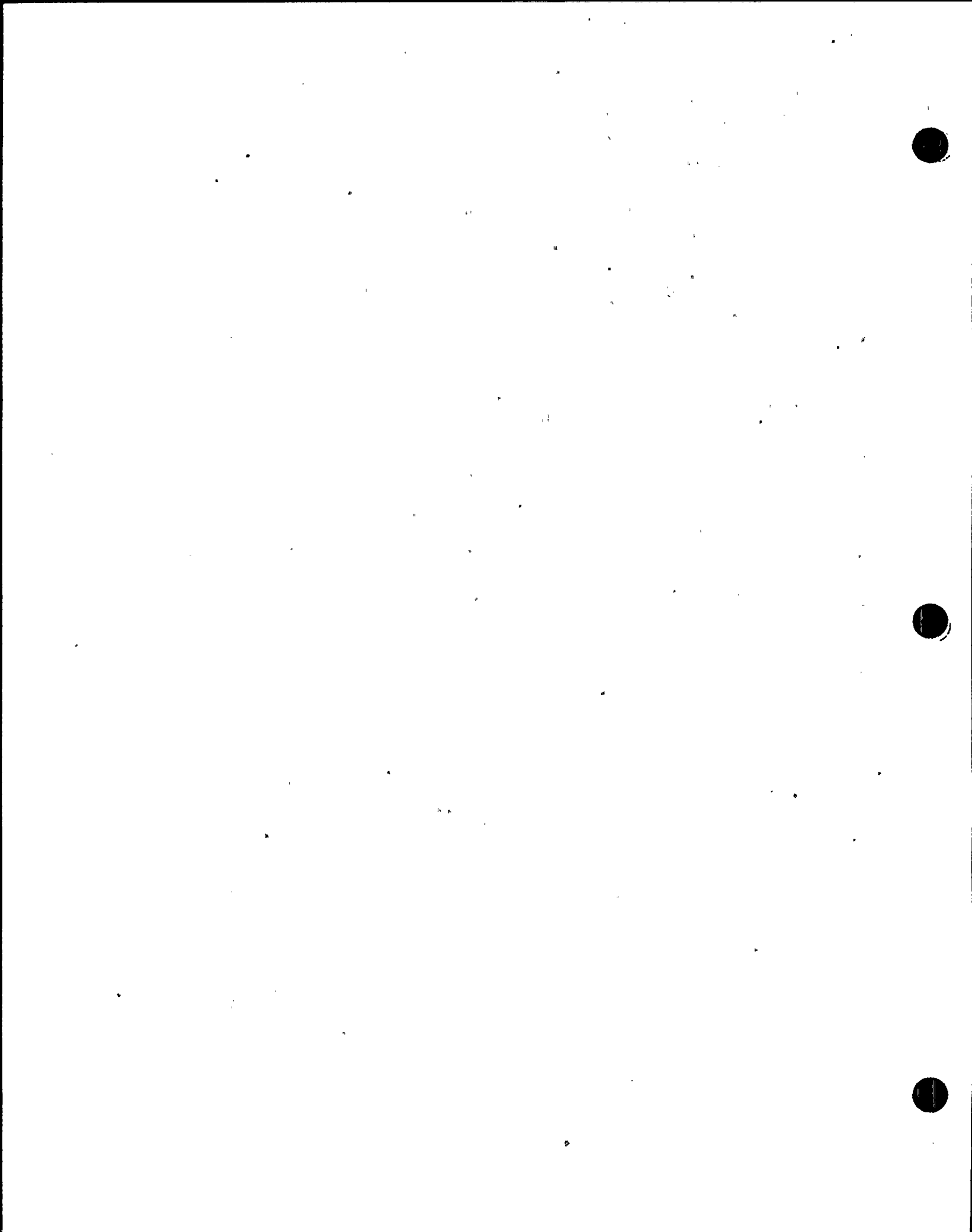
Class 1 Edition 1971, Addenda Date Winter 1972 Case No.

Pressure Containing or Pressure Retaining Components

a. Castings	Serial No. Identification	Material Specification Including Type or Grade
Body	<u>N90490-44-0100</u>	<u>ASME SA182 Gr. F316</u>
Bonnet	<u>N90353-44-0115</u>	<u>ASME SA105</u>
b. Bar Stock and Forgings		
Holder <u>K57220-42-0098</u>	<u>N90553-47-0112</u>	<u>ASTM A637-70 Gr. 718</u> <u>ASME SA637 Gr. 718</u>
Nozzle	<u>N90555-45-0102</u>	<u>ASME SA182 Gr. F316</u>
Disc <u>K57220-42-0098</u>	<u>N90349-47-0131</u>	<u>Haynes Stellite Alloy #6B</u>
Spring Washers	<u>N90350-42-0255</u> <u>N90350-40-0238</u>	<u>ASME SA105 C-1029</u>
Adjusting Bolt	<u>N90351-43-0132</u>	<u>ASTM A193-70 Gr. B6</u> <u>ASME SA193 Gr. B6</u>
Spindle <u>K56381-44-0138</u>	<u>N90354-46-0132</u>	<u>ASTM A193-73 Gr. B6 Type 410</u> <u>ASME SA193 Gr. B6 Type 410</u>

0 6 7 4 1 0 1 6 4 5

3-3, A, 178367-13



0 3 7 4 1 0 1 6 4 6

	Serial No. or Identification	Material Specification Including Type or Grade
c. Spring	<u>NX2761-0147</u>	<u>ASTM A304 51B60H</u>
d. Bolting	_____	_____
e. Other Parts such as Pilot Components	_____	_____
STUD	<u>N90488-1232 thru 1243</u>	<u>ASME SA453 Gr.660</u>
NUT	<u>N90489-1227 thru 1238</u>	<u>ASTM A193-70 Gr. B6</u>

We certify that the statements made in this report are correct.

Date 9-6 19 77 Signed Crosby Valve & Gage Co. By [Signature]
Manufacturer

Certificate of Authorization No. 926 expires October 28, 1977

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Mass. and employed by Factory Mutual Systems*, Norwood, Mass. have inspected the equipment described in this Data Report on 9-20 19 77 and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 9-20 19 77
[Signature]
(Inspector) Commission NR 7325
National Board, State, Province and No.)

*Arkwright-Boston Manufacturers Mutual Insurance Company - Mutual Boiler & Machinery Division.

3-3Q.A. 178367-13

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 07/05/94
Name
P.O. Box 1551, Raleigh, N. C. 27602-1551 Sheet 1 of 2
Address
2. Plant Shearon Harris Nuclear Power Plant Unit 1
Name
P.O. Box 165, New Hill, N. C. 27562-0165 93-ANPH1 and PCR-6721
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power and Light Company Type Code Symbol Stamp N/A
Name
New Hill, N.C. Authorization No. N/A
Address Expiration Date N/A
4. Identification of System Auxiliary Feedwater (3065)

5. (a) Applicable Construction Code ASME SECT. III 1974 Edition, W 1976 Addenda, _____ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1AF-Piping A Loop	Southwest Fab. & Welding Co.	See Remarks	See Remarks	1-AF-18	1986	Replaced	Yes
1AF-Piping A Loop	Carolina Power & Light Co.	N/A	N/A	1-AF-18-01 See att. dwg.	1994	Replacement	No

7. Description of Work Replaced portions of "A" loop of the S/G AFW Preheater Bypass 6" piping outside of containment due to flow-accelerated corrosion concerns.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in.; (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks See attached manufacturer's data reports and/or certificates of compliance. This replacement includes pipe line
Applicable Manufacturer's Data Reports to be attached
numbers 2AF6-138SAB-1 and 2AF6-59SAB-1, from welds 1-AF-18-01-FW-1 to 1-AF-18-01-FW-7 at penetration M-108 including field
welds FW-1 through FW-15. Pressure-testing was performed per Code Case N-416 and work request 93-ANPH7. Isometric dwg. of the
replacement components provided in lieu of specifying replaced components manufacturer's serial no. and national board no.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the
ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp None

Certificate of Authorization No. N/A

Expiration Date N/A

Signed [Signature]

Date 7/27, 1994

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the
State or Province of North Carolina and employed by The Hartford Steam Boiler Inspection and Insurance Company of
One State Street, Hartford, Connecticut 06102 have inspected the components described
in this Owner's Report during the period 12/02/92 to 05/12/94, and state that
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
this inspection.

[Signature]
Inspector's Signature

Commissions NC 1042

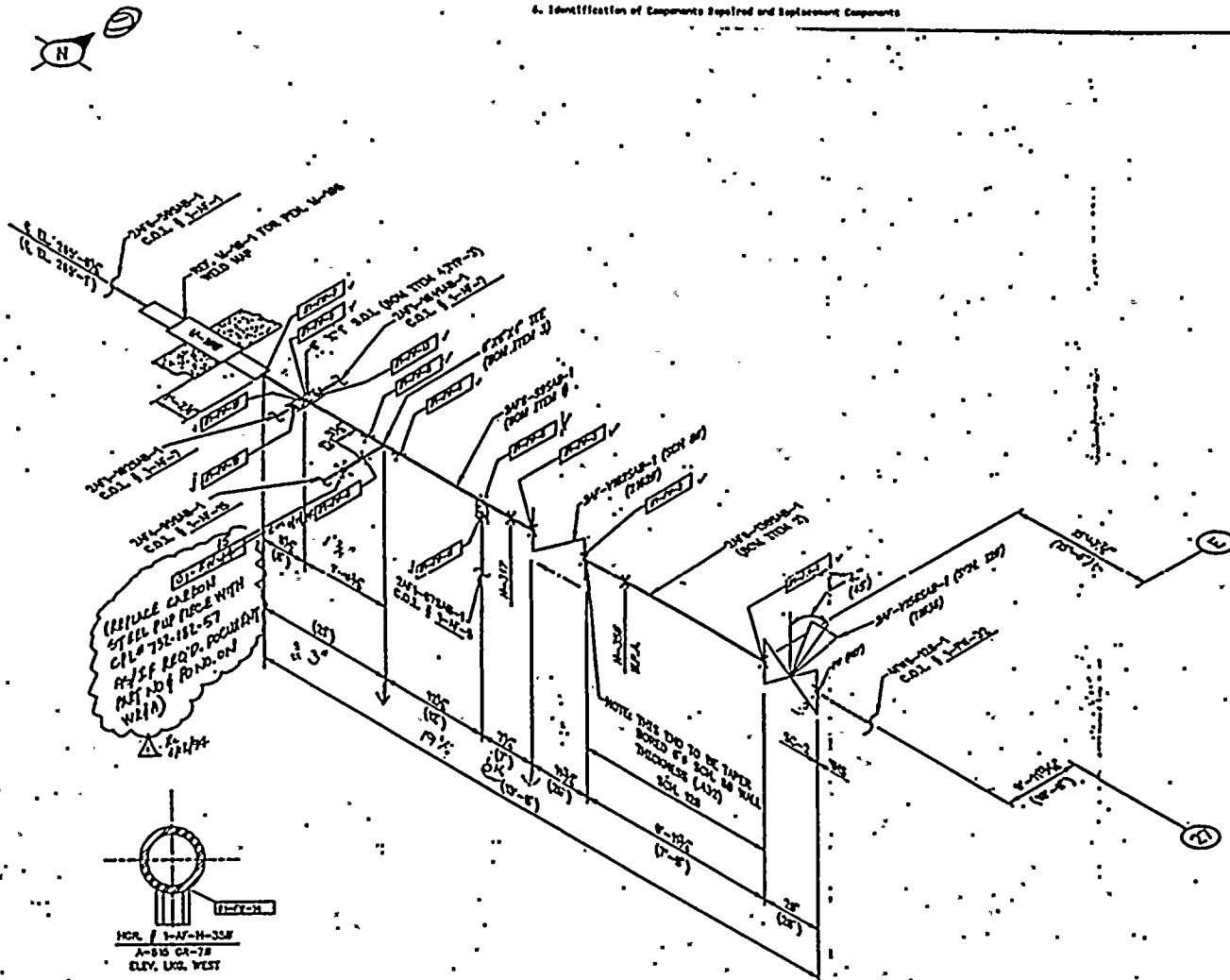
National Board, State, Province, and Endorsements

Date July 29, 1994

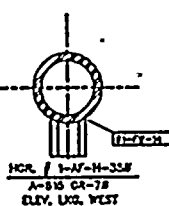
- Owner Caroline Power & Light Company, P.O. Box 3333, Raleigh, N.C. 27602-3333
- Plant Western Electric Nuclear Power Plant, Unit 1, P.O. Box 361, New Hill, N.C. 27542-8115
- Work Performed by Caroline Power and Light Co., Box 3111, R.C.
- Repair Organization P.O. No., Job No., etc. 71-47741 and 752-4771
- Identification of System Ballistic Testwater (2265)
- (a) Applicable Construction Code ASME SECT. III, 1974, Edition, 1974 Address Code Case
- (b) Applicable Edition of Section II Utilized for Repairs or Replacements II, 1974 Address Section III
- Identification of Components Replaced and Replacement Components

Sheet 2 of 2

Date 07/23/74

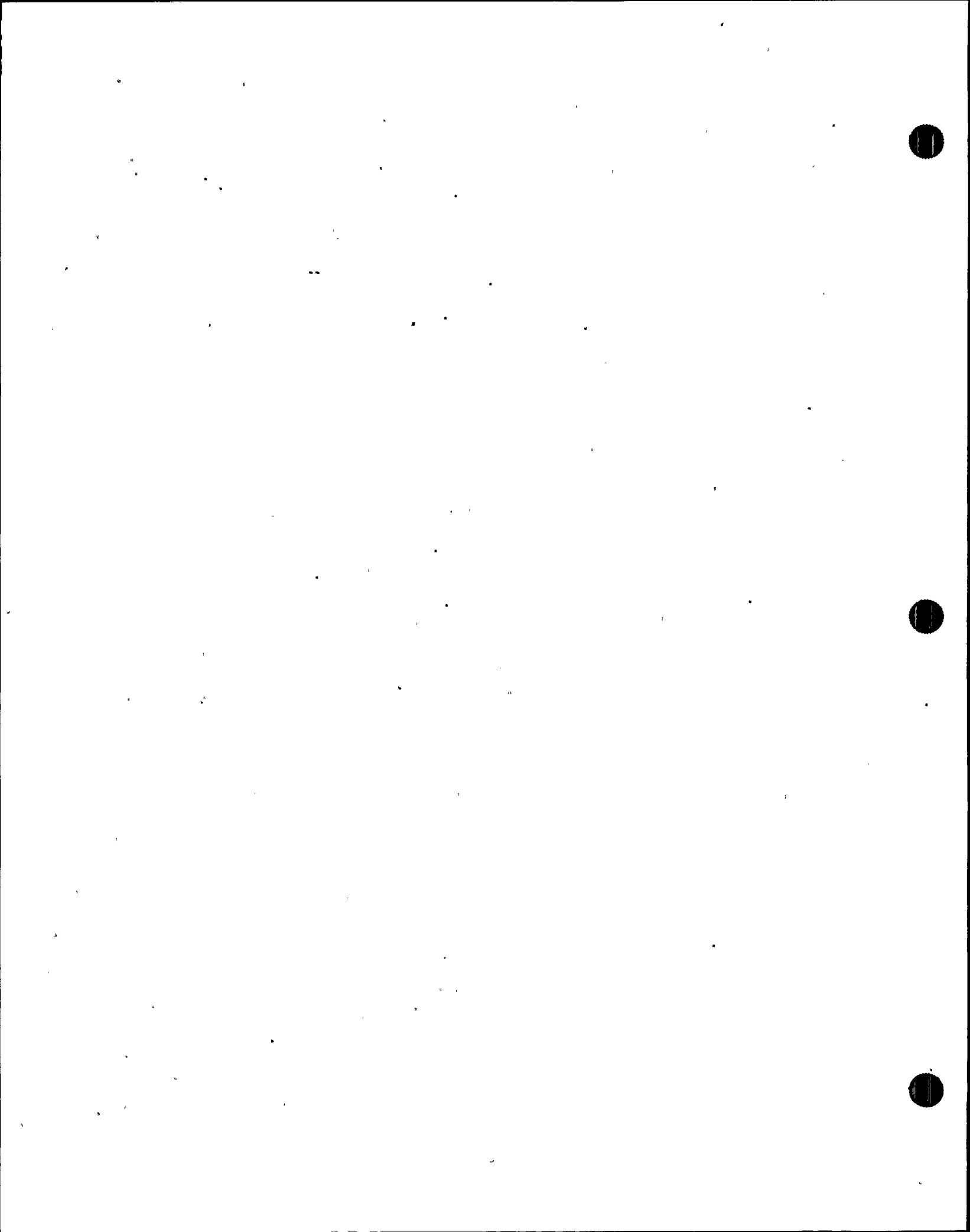


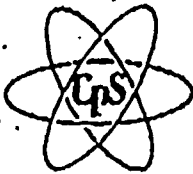
- NOTES:
- ALL FIELD WELD JOBS ARE UNDERSTOOD TO BE PRECEDED BY THE ISOMETRIC NO. I.E. 1-AF-18-01. ALL FIELD WELDS MADE UNDER ASME SECT. III ARE ALSO PRECEDED BY THE REPAIR/REPLACEMENT NO. I.E. 1-AF-18-01.
 - DIMS SHOWN IN () ARE DESIGN VALUES, REMAINING DIMS ARE AS-BUILT.
 - THIS DRAWING EFFECTIVELY Voids THE ORIGINAL ISOMETRIC 1-AF-18, HOWEVER 1-AF-18 CAN BE CONSULTED FOR HISTORICAL INFORMATION AS APPLICABLE.
 - ALL PIPING SHOWN ON THIS DRAWING IS TO BE REPLACED DURING RT-8, VALVES ARE REUSED.



ITEM										DESCRIPTION										QUANTITY										UNITS									
NO.	QTY.	UNIT	DESCRIPTION	NO.	QTY.	UNIT	DESCRIPTION	NO.	QTY.	UNIT	DESCRIPTION	NO.	QTY.	UNIT	DESCRIPTION	NO.	QTY.	UNIT	DESCRIPTION	NO.	QTY.	UNIT	DESCRIPTION	NO.	QTY.	UNIT	DESCRIPTION	NO.	QTY.	UNIT	DESCRIPTION								
<p>PIPE</p> <p>FITTINGS</p> <p>FLANGES</p> <p>BOLTS & NUTS</p> <p>CASKETS</p> <p>LINE</p> <p>TYPE OF MAT'L: CARBON STEEL</p>																																							

MARCO 0000 (93-AN111-P)





Consolidated Power Supply

739-884-95

CERTIFICATION *****

CUSTOMER: CAROLINA POWER & LIGHT
HARRIS NUCLEAR PLANT
SR 1134
NEW HILL, NC 27562

**REVISED 02-17-94
DATE: 02-08-94

CUSTOMER P.O. #: 7K2901CJ
SALES ORDER: 6538266A

ATTN: QA RECEIPT INSPECTION

ITEM #	QTY	MATERIAL DESCRIPTION	SPEC & GRADE	MANUFACTURER	HEAT CODE
2	34.8 FT	6" SCH 80 CHROME-MOLY SMIS. PIPE 17-21'R/L PART# 739-884-95	**SA335 GR: P22	SUMITOMO CPS CUTCODE: 1VY	J239082

THIS SHALL CERTIFY THAT THE ABOVE MATERIAL WAS MANUFACTURED AND PROCESSED IN ACCORDANCE WITH SPECIFICATIONS WHICH MEET THE FOLLOWING REQUIREMENTS:

- X ASME SECTION III NCA3867.4(e) UPGRADED MATERIAL
- X ASME SECTION III CLASS 2, 1974 EDITION WINTER 1976 ADDENDA
- X ASME SECTION II 1983 EDITION SUMMER 1983 ADDENDA
- X CUSTOMER SPECIFICATION NUMBER: AS LISTED IN YOUR P.O.
- X CUSTOMER PURCHASE ORDER REQUIREMENTS
- X 10CFR21 REQUIREMENTS
- X 10CFR50 APPENDIX B AS APPLICABLE
- X CPS Q.A. PROGRAM 3RD EDITION REV. 2 DATED 11/10/93
- X QUALITY SYSTEM CERTIFICATE #515 EXPIRATION DATE: 12/12/95

SIGNED BY:
R/RLW
S/KMK

Rachel L. Woods
RACHEL L. WOODS

TITLE: QA REPRESENTATIVE

DATE:

2/17/94

3556 Mary Taylor Road • Birmingham, Alabama 35235 • (205) 655-5515

Order No.: OYVA2406 Page: 1 Date: 1992-11-9
 注文番 057 KEP 0646 2 2P17S2035
 Shipper: SUMITOMO CORPORATION

検査証明書
INSPECTION CERTIFICATE



住友金属工業株式会社 鋼管製造所
SUMITOMO METAL INDUSTRIES, LTD.
STEEL TUBE WORKS
 1, Nishikucho, Higashi-ku, Amagasaki, Japan

Customer: RADNOR ALLOYS INC.

10" S180 P=2.2

Commodity: SEAMLESS ALLOY STEEL PIPE

Order No.: RA-38130-II
 Order No.: SITEH NO.: 4

RA-38130-II
 SITEH NO.: 4
 CPS
 QA REVIEW
 Approved BP
 Date: 1-27-94

Standard: ASTM A335-90 / ASME SA-335 GR-P22

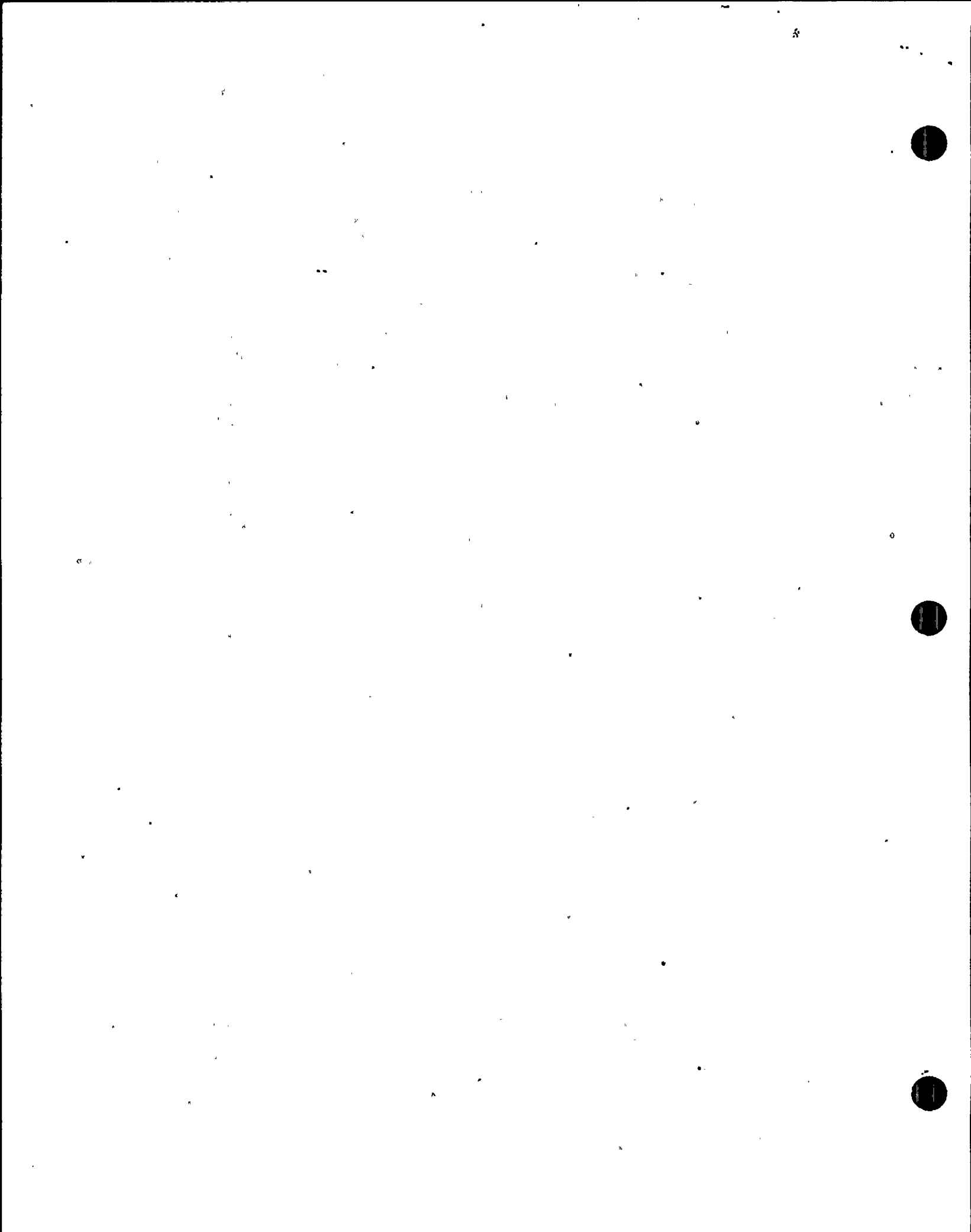
Order No.	Spec. No.	Ext. O.D.	Int. I.D.	N&S W.T.	Length	Lot No.	Spec. No.	Weight																																
OYVA2406	NB6			SCH80	MIN. 36' MAX. 42'	13		551.10'																																
<p>化学成分 Chemical Composition %</p> <table border="1"> <tr> <th>Element</th> <th>C</th> <th>Si</th> <th>Mn</th> <th>P</th> <th>S</th> <th>CR</th> <th>MO</th> </tr> <tr> <td>MIN.</td> <td>0.15</td> <td>0.20</td> <td>0.30</td> <td>0.005</td> <td>0.005</td> <td>0.10</td> <td>0.02</td> </tr> <tr> <td>MAX.</td> <td>0.25</td> <td>0.35</td> <td>0.50</td> <td>0.010</td> <td>0.010</td> <td>0.15</td> <td>0.03</td> </tr> </table>									Element	C	Si	Mn	P	S	CR	MO	MIN.	0.15	0.20	0.30	0.005	0.005	0.10	0.02	MAX.	0.25	0.35	0.50	0.010	0.010	0.15	0.03								
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<p>引張試験 Tensile Test</p> <table border="1"> <tr> <th>Spec. No.</th> <th>Yield (MPa)</th> <th>T.S. (MPa)</th> <th>EL. (%)</th> </tr> <tr> <td>1</td> <td>300</td> <td>600</td> <td>30</td> </tr> <tr> <td>2</td> <td>452</td> <td>700</td> <td>41</td> </tr> <tr> <td>3</td> <td>438</td> <td>700</td> <td>41</td> </tr> </table>									Spec. No.	Yield (MPa)	T.S. (MPa)	EL. (%)	1	300	600	30	2	452	700	41	3	438	700	41																
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<p>衝撃試験 Impact Test</p> <table border="1"> <tr> <th>Temp (°C)</th> <th>(1)</th> <th>(2)</th> <th>(3)</th> <th>AVG.</th> </tr> <tr> <td>MIN.</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>MAX.</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>									Temp (°C)	(1)	(2)	(3)	AVG.	MIN.					MAX.																					
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MIN.																																								
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<p>物理試験 Physical Test</p> <table border="1"> <tr> <th>Test</th> <th>Result</th> </tr> <tr> <td>Hydrostatic</td> <td>GOOD</td> </tr> <tr> <td>N.D.E.</td> <td>GOOD</td> </tr> <tr> <td>Flattening</td> <td>GOOD</td> </tr> <tr> <td>Bending</td> <td>-</td> </tr> <tr> <td>Flange</td> <td>-</td> </tr> <tr> <td>Weld Ductility</td> <td>-</td> </tr> <tr> <td>Crack</td> <td>-</td> </tr> <tr> <td>Reverse Flattening</td> <td>-</td> </tr> <tr> <td>Reverse Bend</td> <td>-</td> </tr> <tr> <td>Ring Expansion</td> <td>-</td> </tr> <tr> <td>Ring Tensile</td> <td>-</td> </tr> <tr> <td>Ring Gauge</td> <td>-</td> </tr> <tr> <td>Drift</td> <td>-</td> </tr> <tr> <td>Plated</td> <td>-</td> </tr> <tr> <td>Coating & Lining</td> <td>-</td> </tr> </table>									Test	Result	Hydrostatic	GOOD	N.D.E.	GOOD	Flattening	GOOD	Bending	-	Flange	-	Weld Ductility	-	Crack	-	Reverse Flattening	-	Reverse Bend	-	Ring Expansion	-	Ring Tensile	-	Ring Gauge	-	Drift	-	Plated	-	Coating & Lining	-
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Plated	-																																							
Coating & Lining	-																																							
<p>HEAT TREATMENT: ISOTHERMAL ANNEALING (920°C X 10' → 725°C X 45' A.C.) NO WELD REPAIR</p>																																								
<p>WE HEREBY CERTIFY THAT THE MATERIAL HEREIN DESCRIBED HAS BEEN MANUFACTURED, SAMPLED, TESTED, AND INSPECTED IN ACCORDANCE WITH ABOVE STANDARD AND SPECIFICATION AND SATISFIES THE REQUIREMENTS.</p>																																								
<p>検査員: H. O. J. (Signature) MANAGER OF QUALITY ASSURANCE SECTION PRODUCTION TECHNOLOGY DEPARTMENT</p>																																								

- (M1) Unit (mm) M=mm
- (M2) L=Length P=Product
- (M3) Kind of Steel (M) K=Killed, S=Seamless, R=Rimmed
- (M4) Direction (M) L=Longitudinal, T=Transverse, Z=Through Thickness
- (M5) Sampling Position (M) S=Base Metal (S) W=Weld Metal (S) M=K.A.Z. (S) P=Pipe or Coil, T=Base Metal (T) J=Joint
- (M6) Un upset Portion
- (M7) Unit (mm) K=Killed, M=MPa, N=Non, P=KSI, T=Temp, C=Temp, A=mm, C=mm, Q=KPa, R=bar
- (M8) Comm. (M) K=Impact Test (M) S=Shear Area (M) B=Change Area (M) L=Load Expansion (M)
- (M9) Unit (mm) K=Killed, A=Adm, J=Joint, C=Coil, F=Hd, B=Hd, M=Process, N=Non
- (M10) Type of Expansion (M) T=Full Section, S=Shear, B=Round
- (M11) A=No. 1, B=No. 2, C=No. 3, Z=No. 4, Q=No. 5, U=No. 6, O=No. 7, G=No. 8, K=No. 9, L=No. 10, M=No. 11, N=No. 12
- (M12) Kind of T. P. or S. (M) A=20, U=Upper Yield, L=Lower Yield, M=Mean
- (M13) Gauge Length (M) M=mm, A=ft or in
- (M14) Unit (mm) Actual Gauge Length

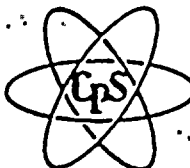
CONSOLIDATED POWER SUPPLY
 THIS MTR APPLIES TO
 CUSTOMER: PO # 7829015J
 RADNOR ALLOYS, INC.
 ACCEPTABLE
 BY & DATE: 1/4/93

2/17/94

Order No.: OYVA2406 END



738-858-65



Consolidated Power Supply

CERTIFICATION *****

CUSTOMER: CAROLINA POWER & LIGHT
HARRIS NUCLEAR PLANT
SR1134
NEW HILL, NC 27562

DATE: 10-20-92
CUSTOMER P.O. #: 7D1983DK
SALES ORDER: 6523361

ATTN: QA RECEIPT INSPECTION

ITEM #	QTY	MATERIAL DESCRIPTION	SPEC & GRADE	MANUFACTURER	HEAT CODE
1	143.7'	6" SCH 120 SMLS PIPE 17-21'R/L CPS CUT CODES: FLM, FLN, FLO, FLP	SA335 P22	DALMINE	218698

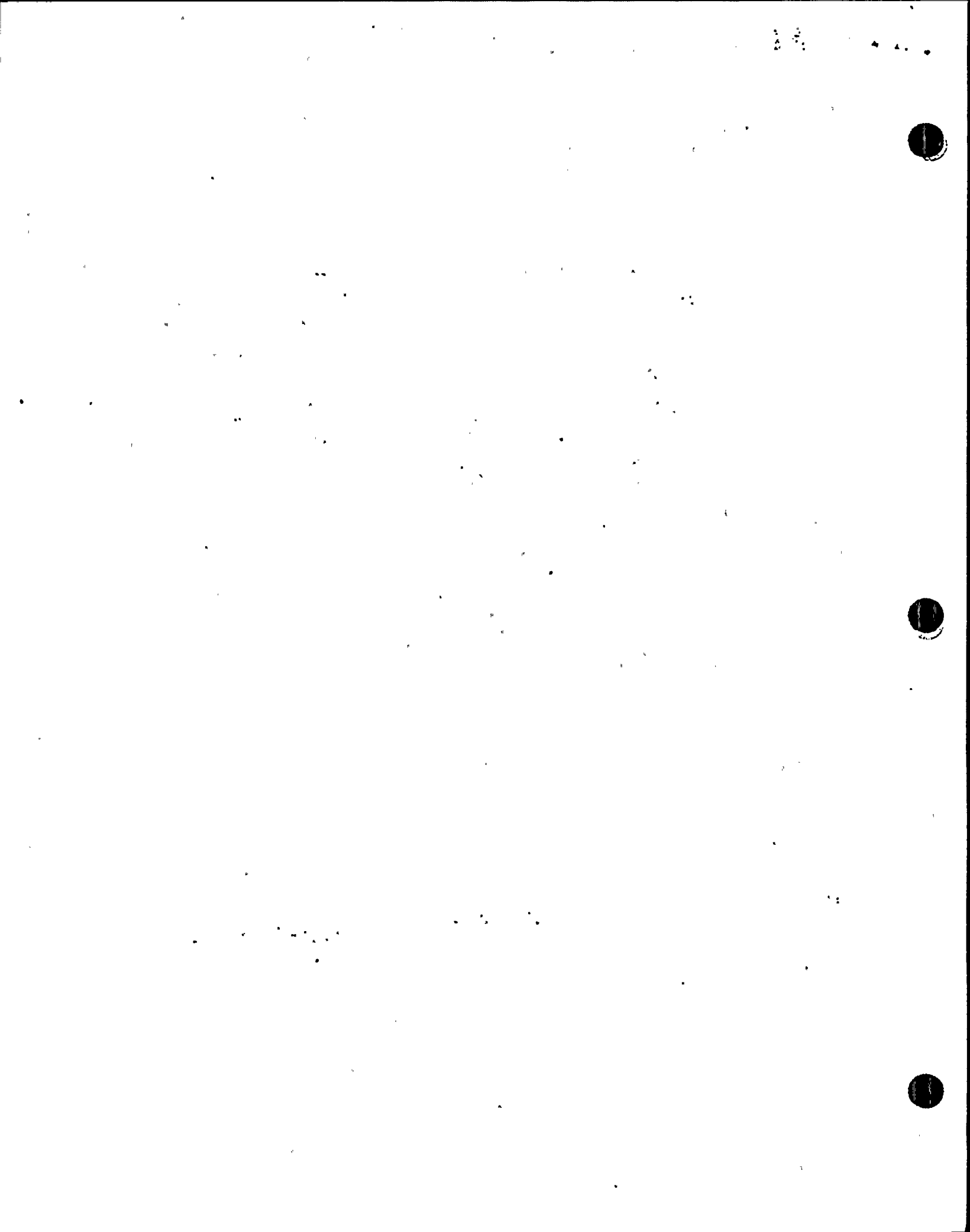
THIS SHALL CERTIFY THAT THE ABOVE MATERIAL WAS MANUFACTURED AND PROCESSED IN ACCORDANCE WITH SPECIFICATIONS WHICH MEET THE FOLLOWING REQUIREMENTS:

- X ASME SECTION III NCA 3867.4 UPGRADED MATERIAL
- X ASME SECTION III CLASS 2 1974 EDITION WINTER 1976 ADDENDA
- X ASME SECTION II 1974 EDITION WINTER 1976 ADDENDA
- X CUSTOMER SPECIFICATION NUMBER: 055 REV.8
- X CUSTOMER PURCHASE ORDER REQUIREMENTS
- X 10CFR21 REQUIREMENTS
- X 10CFR50 APPENDIX B AS APPLICABLE
- X CPS Q.A. PROGRAM 2ND EDITION REV. 0 DATED 9/14/90
- X QUALITY SYSTEM CERTIFICATE #515 EXPIRATION DATE: 12/12/92

SIGNED BY: *John R. L...*
R/RLW

TITLE: QA REPRESENTATIVE DATE: 10-20-92

3556 Mary Taylor Road • Birmingham, Alabama 35235 • (205) 655-5515



Dalmine

TEST CERTIFICATE

N. 91/21157

PLANT:
DALMINE --

(EURO NORM 21-4.3.2.3.1)
(DIN 50049-3.1B)
(NF A 49000 5.2.2.1 Mod.D)

Page 1

CUSTOMER'S ORDER NO 3952/91

FEDERAL STEEL SUPPLY, INC.

QA REVIEW

MILL ORDER / ITEM 1901999/001
EXP REFERENCE o/12182

THESE TEST REPORTS APPLY TO:
YOUR P.O. # 26522350

JR
MW/d/10/92

PRODUCT --- SEAMLESS STEEL PIPES HOT FINISHED FOR HIGH TEMPERATURE SERVICES TO
ASTM A 335 DIMENSIONS ANSI B 36.10 - ASME SA 335 SECTION II -
STEEL GR. P 22 ASTM A 335 -NORMALIZED AND TEMPERED - BLACK INSIDE
OILED OUTSIDE - BEVELLED ENDS TO ANSI B 16.25

DIMENSIONS:	SCH.	Lg. From	Lg. To	O.D. mm	O.D. Inch	W.T. mm	W.T. Inch
	120	11000	13500	168,300	6"	14,270	0,562

SHIPPING NOTE	QUANTITY : Nr	HE	KG	FT	Lbs
: E1200965	23	297,31	16843	975,41	37132,4

TEST N. 1914F HEAT N. 218698

TENSION TEST + 20,0°C

TEST SPEC. : LONGITUDINAL	WIDTH	THICK.	SECTION
YIELD POINT 0,2% (KSI) : requir min 30	25,6	16,70	427,5 mm2
TENSILE STRENGTH (KSI) : requir min 50			result - 51,5
ELONGATION : CALIBRATED ON 2" 50,0 mm			result - 73,5
(%) : requir.min 30,0			result - 48,0

HARDNESS HB requ. max 179,0 result 177,0

TECNOLOGICAL TESTS PERFORMED WITH SATISFACTORY RESULTS:

FLATTENING TEST : TEST PERFORMED AT ONE END OF 1 PIPE OF THE LOT

TEST N. 1915F HEAT N. 218698

TENSION TEST + 20,0°C

TEST SPEC. : LONGITUDINAL	WIDTH	THICK.	SECTION
YIELD POINT 0,2% (KSI) : requir min 30	25,4	17,00	431,8 mm2
TENSILE STRENGTH (KSI) : requir min 50			result - 51,9
ELONGATION : CALIBRATED ON 2" 50,0 mm			result - 74,0
(%) : requir.min 30,0			result - 48,0

HARDNESS HB requ. max 179,0 result 177,0

TECNOLOGICAL TESTS PERFORMED WITH SATISFACTORY RESULTS:

FLATTENING TEST : TEST PERFORMED AT ONE END OF 1 PIPE OF THE LOT

HEAT N. 218698

HEAT ANALYSIS %

C 0,110	Mn 0,42	Si 0,23	P 0,015	S 0,001
Mo 0,94				

Cr 2,15
CONSOLIDATED POWER SUPPLY

TEST N. 1914F HEAT N. 218698

PRODUCT ANALYSIS %

C 0,120	Mn 0,41	Si 0,24	P 0,015	S 0,001
---------	---------	---------	---------	---------

THIS MTR APPLIES TO
CUSTOMER: *CRP*

PO # 7D19830K

Cr 2,15 *Stent*

Questo certificato è emesso da un sistema computerizzato ed è valido senza firma. È possibile originare copie a mezzo di un sistema video largo uso di stampa. È permesso anche di stampare questo certificato dove necessario a uso interno in cartaceo, servendosi degli apparecchi per la stampa a striscia, sempre non consentita dalla Dalmine.

This certificate is issued by a computerized system and it is valid without signature. On the other hand, it is possible to make copies of this certificate using a large format video printer. It is also possible to print this certificate on paper, using the appropriate equipment, provided that the printing is done internally. This printing is not permitted by Dalmine.

Le certificat est émis par un système d'informatique et est valide sans signature. Le certificat original mentionne le matériel vidéo utilisé pour la copie. Il est permis de reproduire ce certificat sur papier, à usage interne, en utilisant des appareils adaptés à cet effet. Cette réimpression n'est autorisée que pour l'usage interne.

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For attention and/or application call be subject to the law.

Le certificat est émis par un système d'informatique et est valide sans signature. Le certificat original mentionne le matériel vidéo utilisé pour la copie. Il est permis de reproduire ce certificat sur papier, à usage interne, en utilisant des appareils adaptés à cet effet. Cette réimpression n'est autorisée que pour l'usage interne.

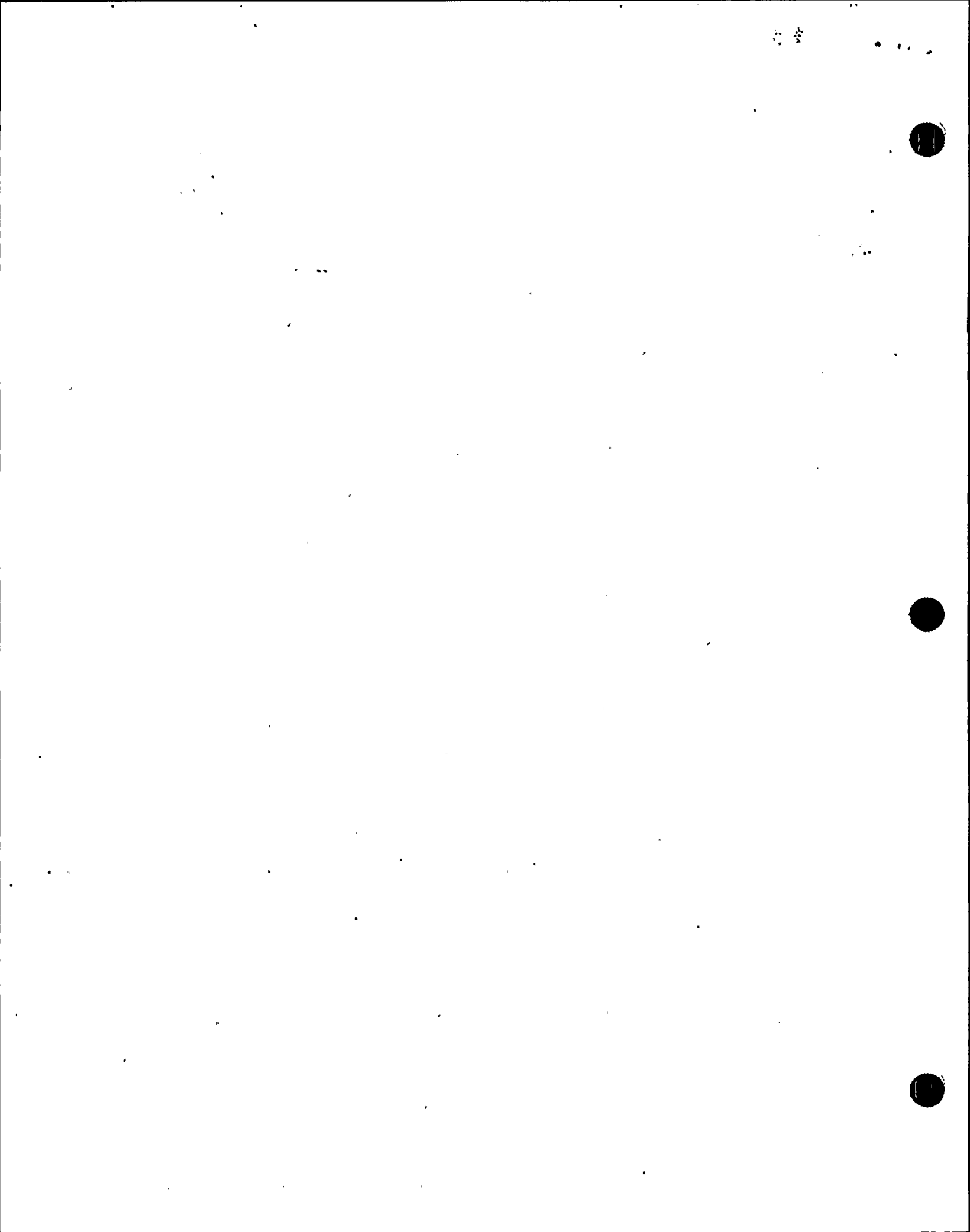
DATE


15/11/1991

FEDERAL STEEL SUPPLY
APPROVED
BY *[Signature]*
DATE 10/14/92

INSPECTION DPT

Roberto COLLEONI



Dalmine 	TEST CERTIFICATE	N. 91/21157
	(EURONORM 21-4.3.2.3.1) (DIN 50049-3.1B) (NF A 49000 5.2.2.1 Mod.D)	Page 2

Mo 0,94 ✓

TEST N. 1915F HEAT N. 218698 ✓

PRODUCT ANALYSIS %

C 0,110 ✓	Mn 0,43 ✓	Si 0,22 ✓	P 0,015 ✓	S 0,001 ✓	Cr 2,15 ✓
-----------	-----------	-----------	-----------	-----------	-----------

Mo 0,94 ✓

LEAK-TIGHTNESS TEST PERFORMED WITH SATISFACTORY RESULTS BY:
HYDRAULIC TEST PRESSURE 2800,0 PSI FOR 5 Sec

VISUAL AND DIMENSIONAL CONTROL OF THE TUBES HAS BEEN CARRIED OUT WITH SATISFACTORY RESULT

REMARKS:

STEEL IS FULLY KILLED AND PRODUCED BY ELECTRIC FURNACE.
TUBES HAVE BEEN NORMALIZED AT 920°C FOR 15' AND TEMPERED AT 750°C FOR 45'.
WE HEREBY DECLARE THE TUBES ARE ACCORDING TO ASTM (L.E.) A 335/ASME SA 335 - A 530/A 530M -STEEL GR.P22.
" AT NO TIME DURING THE MANUFACTURE OF THIS REFERENCED PIPE WERE ANY WELDING PROCEDURES PERFORMED"
"MATERIALS MERCURY FREE"

* IGQ CERTIFIED FACTORY Nr. : 8603 *

FEDERAL STEEL SUPPLY, INC.
THESE TEST REPORTS APPLY TO:
YOUR P.O. # 265 22350

FEDERAL STEEL SUPPLY
QA APPROVED
BY [Signature]
DATE 10/14/92

CPS
QA REVIEW
[Signature]
Date 10/16/92

CONSOLIDATED POWER SUPPLY

THIS MTR APPLIES TO
CUSTOMER: CPS
PO #: 7D1983DK
Item #1

Questo certificato è emesso da un sistema computerizzato ed è valido senza firma. Il testatore originale riceve il numero (2) in carta verde lungo una spirale. È possibile che l'originale, qualora fosse esente, venga distrutto a suo merito o comunque, conservato ed è responsabile per lui. Segnalare e compensare non consentita. Dalmine.

This certificate is issued by a computerized system and it is valid without signature. On the original the testator the trademark (2) is printed along a spiral. It is possible, in case the holder of the original certificate would receive a copy of it, he must state its conformity to the original one taking upon himself the responsibility for any mistake or not allowed use.

Le certificat est émis par un système d'ordinateur et il est valide sans signature. Le testateur original recevra le nombre (2) en carte verte le long d'une spirale. Dans le cas où le possesseur de l'original détruirait une copie, il devra s'efforcer de conserver le sien, ou s'acquiescer à ce que le responsable pour des usages illicites du tout détruit. (2) réservé par Dalmine. Toute réimpression ou contrefaçon sans autorisation préalable de Dalmine est poursuivie.

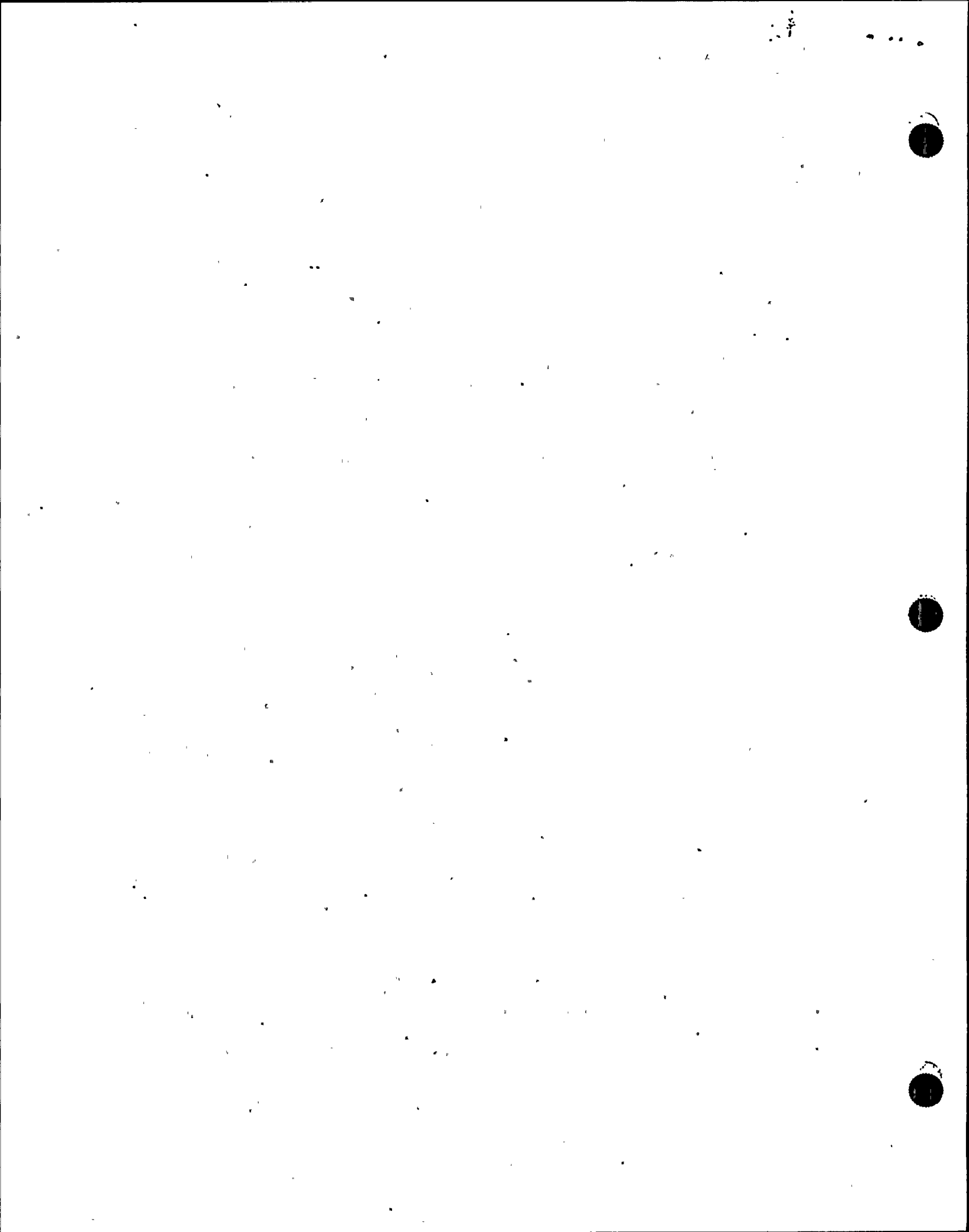
Any alteration and/or falsification will be subject to the law.

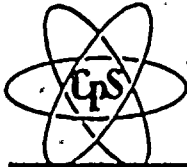
DATE	DALMINE S.p.A	INSPECTION DPT
15/11/1991		Roberto COLLEONI

Ced776

End

R-010-21-92





Consolidated Power Supply

ITEM :
6 NPS S/120 SMLS PIPE

CPS STOCK ITEM NUMBER: _____
PURCHASER: CAROLINA POWER & LIGHT
CUSTOMER PO: 701983DK
CUSTOMER LINE ITEM: 3/1
CPS SALES ORDER: 6523361
CPS PO: 26522350 *10/20/92*

MATERIAL SPEC: ASME SA-335 GRADE P22
EDITION: 1974 ADDENDA: WINTER 1976

MFG HEAT No.: 218698
MFG HEAT CODE: N/A
MFG TEST BAR: N/A

CHEMICAL TESTING RESULTS

CUTCODE	C	Mn	P	S	Si	Cr	Mo
FLM	0.14	0.42 ✓	0.016 ✓	0.005 ✓	0.21 ✓	2.16 ✓	0.98 ✓
FLN	0.12 ✓	0.41 ✓	0.016 ✓	0.004 ✓	0.21 ✓	2.13 ✓	0.97 ✓
FLO	0.12 ✓	0.42 ✓	0.017 ✓	0.005 ✓	0.22 ✓	2.18 ✓	0.98 ✓
FLP	0.12 ✓	0.42 ✓	0.016 ✓	0.004 ✓	0.22 ✓	2.13 ✓	0.98 ✓

PHYSICAL TESTING RESULTS

CUTCODE	TENSILE (ksi)	YIELD (ksi)	AT	ELONG (%)	IN	R. A. (%)
FLM	75.5 ✓	48.0 ✓	.2% OS	30 ✓	2 in.	77
FLN	77.0 ✓	54.0 ✓	.2% OS	30 ✓	2 in.	78
FLO	77.0 ✓	52.5 ✓	.2% OS	29 ✓	2 in.	78
FLP	77.5 ✓	53.0 ✓	.2% OS	29 ✓	2 in.	78

CHEMISTRY performed per CPS SP-703 BY BAIRD DV4 serial #1487A, calibration of which is traceable to NIST SRMs 1761, 1762, 1763, 1764, 1765, and 1766.

TENSION performed per CPS SP-706 by use of Baldwin BTE-120 Universal Testing Machine, serial number 36735.

HARDNESS performed per CPS SP-702 by use of Clark Portable Hardness Testing Machine, serial number CPT97088.

We hereby certify that the above described material was tested in accordance to CPS Quality System Program 2nd Ed. Rev. 0 dated 9/14/90. 10CFR21 is acknowledged.

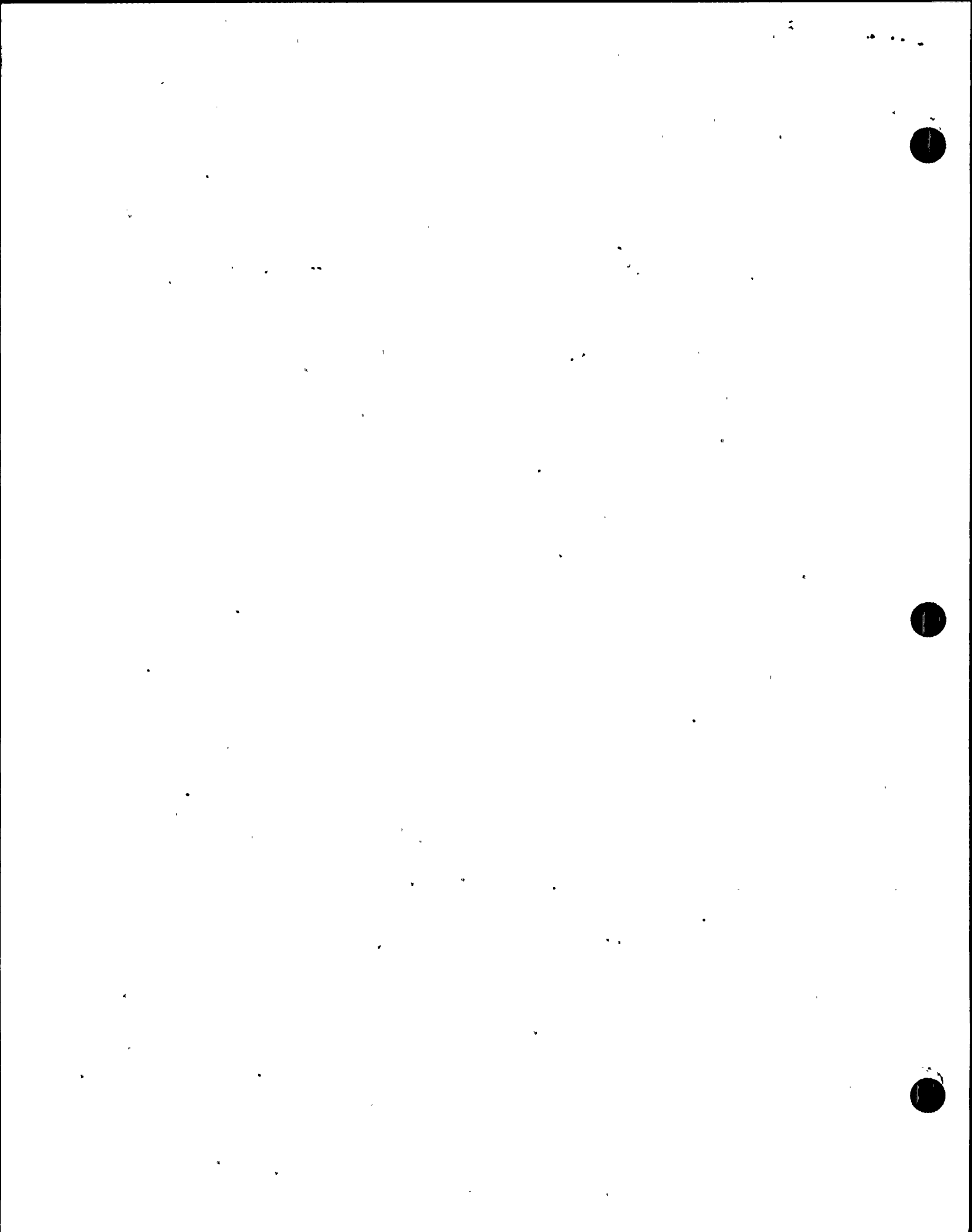
Signature: D.L. Britton
D.L. (Dave) Britton
CPS Laboratory Supervisor

Date: 19 OCT 1992

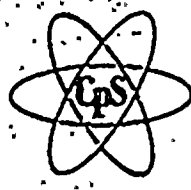
CPS
QA REVIEW
Approved ll
Date 10/20/92

3556 Mary Taylor Road • Birmingham, Alabama 35235 • (205) 655-5515

EB 10-21-92



739-885-03



Consolidated Power Supply

CERTIFICATION *****

CUSTOMER: CAROLINA POWER & LIGHT
HARRIS NUCLEAR PLANT
SR 1134
NEW HILL, NC 27562

DATE: 02-10-94
CUSTOMER P.O. #: 7K2901CJ
SALES ORDER: 6538265

ATTN: QA RECEIPT INSPECTION

ITEM #	QTY	MATERIAL DESCRIPTION	SPEC & GRADE	MANUFACTURER	HEAT CODE
1	6 EA	6" X 6" X 4" SCH 80 BW REDUCING TEE PART# 739-885-03	SA234 WP22	TFS	LJOB-1

THIS SHALL CERTIFY THAT THE ABOVE MATERIAL WAS MANUFACTURED AND PROCESSED IN ACCORDANCE WITH SPECIFICATIONS WHICH MEET THE FOLLOWING REQUIREMENTS:

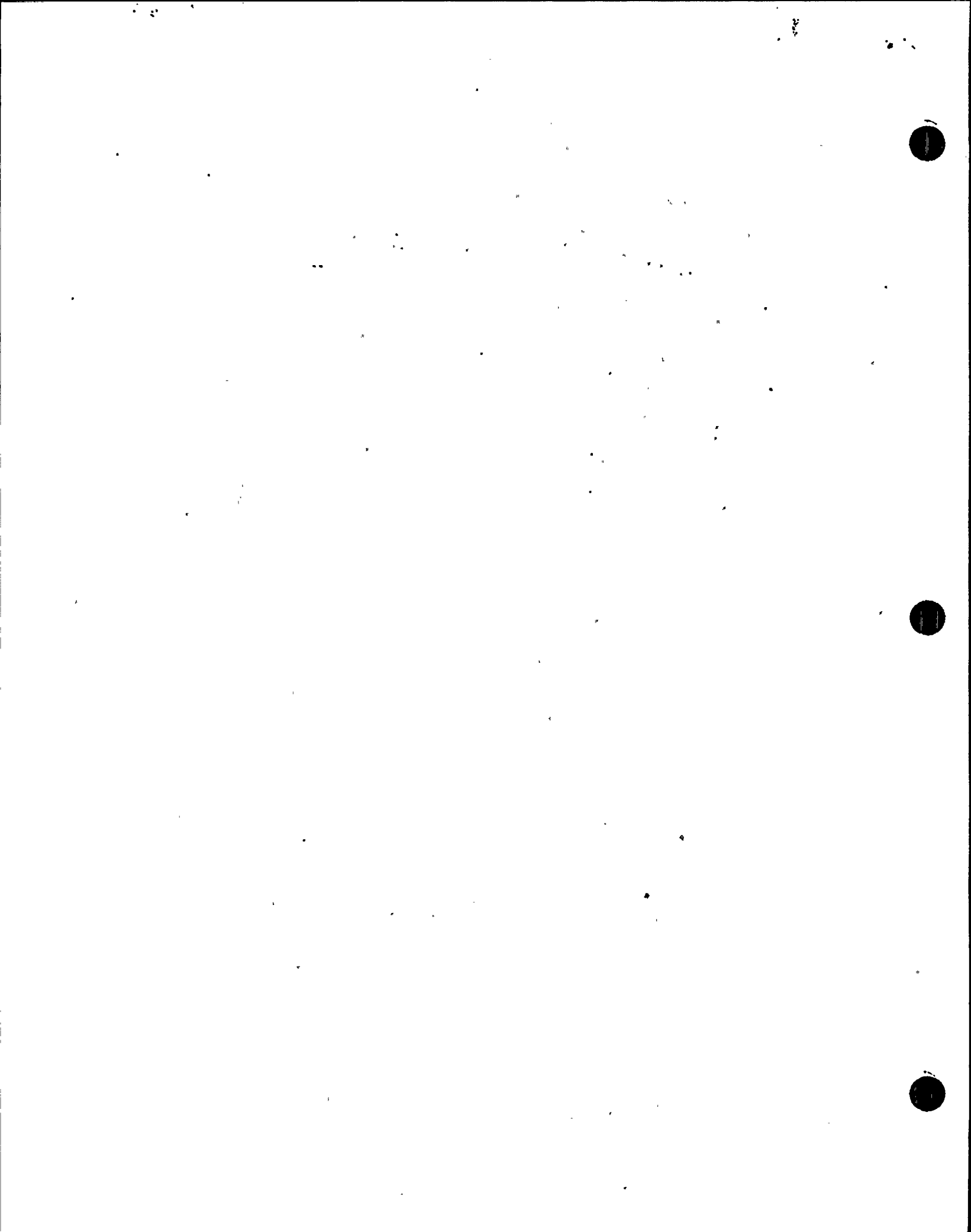
- X ASME SECTION III CLASS 2, 1974 EDITION WINTER 1976 ADDENDA
- X ASME SECTION II 1983 EDITION SUMMER 1983 ADDENDA
- X CUSTOMER SPECIFICATION NUMBER: 055, REV. 8
- X CUSTOMER PURCHASE ORDER REQUIREMENTS
- X 10CFR21 REQUIREMENTS
- X 10CFR50 APPENDIX B AS APPLICABLE
- X CPS Q.A. PROGRAM 3RD EDITION REV. 1 DATED 03/31/93
- X QUALITY SYSTEM CERTIFICATE #515 EXPIRATION DATE: 12/12/95

SIGNED BY: Keith M. Kennedy TITLE: QA REPRESENTATIVE DATE: 2/10/94
 R/RLW
 S/KMK KEITH M. KENNEDY

3556 Mary Taylor Road • Birmingham, Alabama 35235 • (205) 655-5515

A Division of Consolidated Pipe & Supply Co., Inc. Birmingham, AL

AP 2/11/94



TAYLOR FORGE STAINLESS

P.O. Box 610
 Somerville, NJ 08876

CONSOLIDATED POWER SUPPLY

THIS ATR APPLIES TO

CUSTOMER: CPS
 PO #: 7K2901CJ

MANUFACTURER TEST REPORT

PRODUCT NUMBER: 5375N-01 QTY: 6 PO# D65-36563

PRODUCT DESCRIPTION: 6 x 6 x 4 S/80s RED TEE ASME SA234 WP22 SMLS

TEST REPORT HEAT SYMBOL LJ03-1

MECHANICAL PROPERTIES					CHEMICAL ANALYSIS										
YIELD STRENGTH	TENSILE STRENGTH	ELONGATION	REDUCTION OF AREA	HARDNESS	C%	MN%	P%	S%	SI%	MO%	CR%	NI%	CO%		
45200	70800	41			.11	.43	.010	.006	.28	.94	2.15				
37513	73227	31.7			.12	.44	.009	.007	.28	.89	2.14				
44306	69663	41.8													

CLY: CL DS DS CH CH HLL HEAT J239082 CWelded Coated

- U.T. Insp. & Accepted per Process
- R.T. Insp. & Accepted per Process
- P.T. Insp. & Accepted per Process
- Annealed at 1675°F +/- 25°F
- Hydro Blasting tests satisfactory
- Filings were manufactured in accordance with the purchase order requirements and specifications.
- Visual and dimensional inspection of fittings revealed conformance to the contract requirements.
- Material certified to be free of mercury, sulphur, halogen and low melting point alloy contamination.

REMARKS:
 * UPGRADED IN ACCORDANCE WITH NCA 3867.4(e)
 ASME SA234 WP22 SEAMLESS
 ASME SEC. III, CLASS 2 1974 ED., W.1976 ADD.
 ASME SEC. II, 1983 ED S1983 ADD
 POS #1 REV.4; ATTACHMENT APPLIES
 ANSI N45.2.2 1972 LEVEL D APPLIES
 10CFR21 AND NCA3800 APPLY
 10CFR50 APP.B APPLIES
 QSC #269, EXPIRES 1-21-95
 ANSI/ASME N45.2 AND NQA-1 BASIC REQUIREMENTS APPLY
 NO WELDING PERFORMED

CPS
QA REVIEW
 Approved [Signature]
 Date 2/10/94

MATERIAL WAS MANUFACTURED IN ACCORDANCE WITH TFS QUALITY MANUAL 7TH ED. REV. 0, 11-13-91

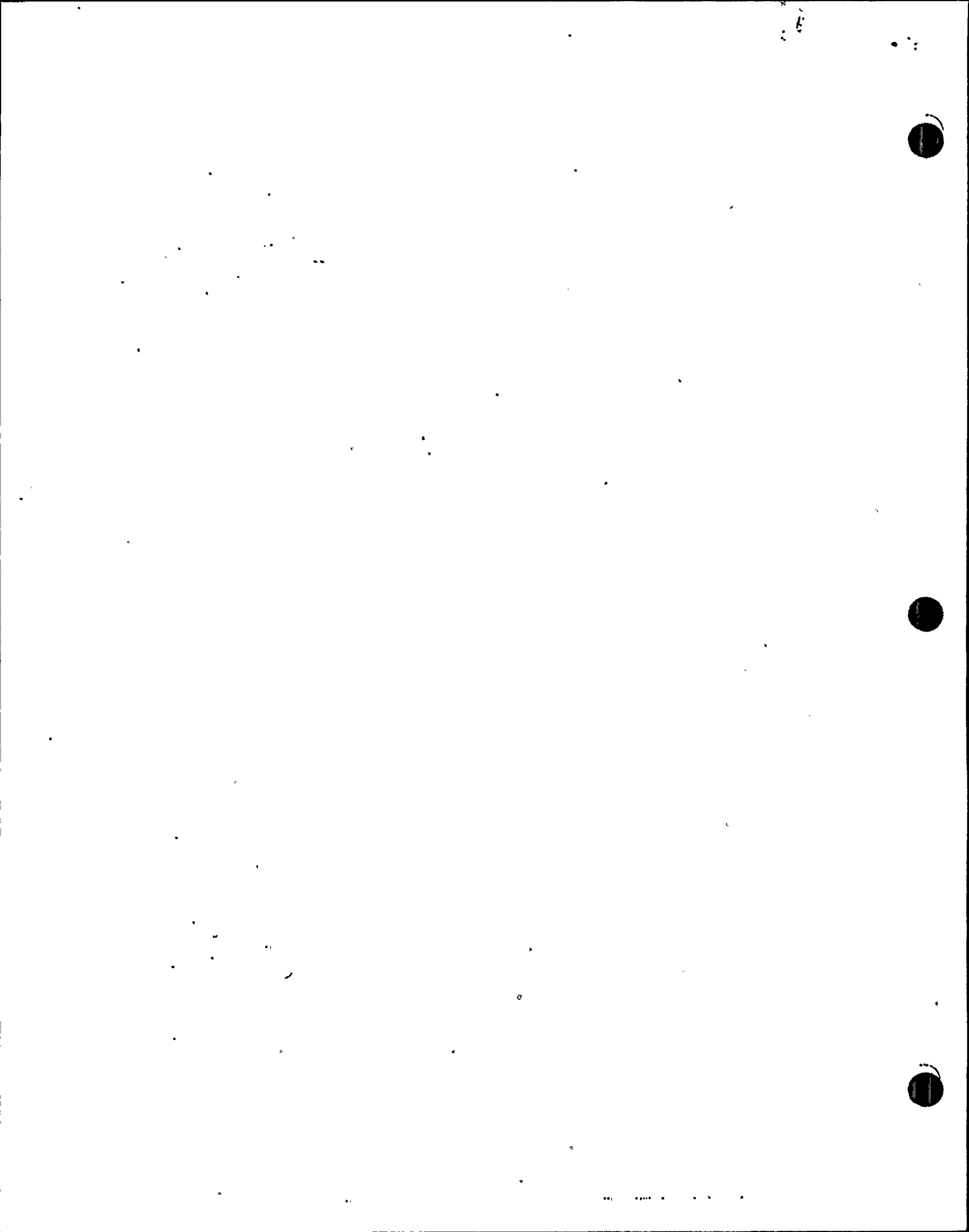
** TENSILE PERFORMED PER S2 OF SA234

TAG: PO#7K2901CJ, ITEM #1, PART #739-885-03

REVISED 2-10-94 al

2-10-94 [Signature]
 DATE QUALITY ASSURANCE

2-11-94



RECEIVED 02/09/94 15:19 1994 AT 6554871 PAGE 4 (PRINTED PAGE 4) 1
 02/09/94 14:37 TAYLOR FORGE STAINLESS → CPS

NO.394 P084
 001/002

01/29/94 16:51 TP215 248 9656

LABORATORY TEST → TAYLOR FORGE

TELE: (717) 248-2398
 FAX: (717) 248-2398

Certificate of Conformance No. 115640



LABORATORY TESTING INC.
 P.O. Box 249 Dublin, Pennsylvania 18917
SOLD TO
 Taylor Forge Stainless
 P.O. Box 610
 Bonarville, NJ 08876-0610
 Attn: Accounts Payable

CONSOLIDATED POWER SUPPLY

TERMS: NET - 30 DAYS

THIS INSTR APPLIES TO:
 CUSTOMER: CPS
TK291CJ
 PO #

SHIPPING ADDRESS
 120 MILL STREET, DUBLIN, PA 17217

SHIP TO

Attn: Jim Takacs

CUST. P.O.
 #FS 06848

LAB REPORT NO.
 B-83282

SHIPMENT
 Complete

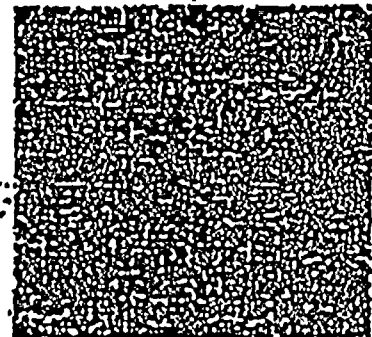
INVOICE DATE
 1/28/94

DESCRIPTION

Page 1 of 2

1 pc. Coupon representing 6" Sch. 80 Seamless Pipe
 For use under ASME Section III, Class 2,
 1974 Edition through Winter 1976 Addenda,
 material upgrade in accordance with ASME
 Section III, Class 2, 1989 Edition, 1989
 Addenda, NCA 3867.4(e), ASME SA-335, TP,
 Grade P22, Heat Code #LJOB-1

Reference: Product #N390-346



A. The above referenced sample was submitted to chemical content evaluation by Spectroscopic Analysis and it was found to be in conformance to Section 5 of ASME SA-335, Grade P22. The results are as follows:

ELEMENT	REQUIRED	ACTUAL
Carbon	0.15 maximum	0.12 ✓
Manganese	0.30 - 0.60	0.44 ✓
Phosphorus	0.025 maximum	0.009 ✓
Sulfur	0.025 maximum	0.007 ✓
Silicon	0.50 maximum	0.28 ✓
Chromium	1.90 - 2.60	2.14 ✓
Molybdenum	0.87 - 1.13	0.89 ✓

CPS
QA REVIEW
 Approved: KMK
 Date: 02/10/94

TAYLOR FORGE STAINLESS
 QUALITY ASSURANCE
 REVIEWED BY: PL
 DATE: 1-31-94

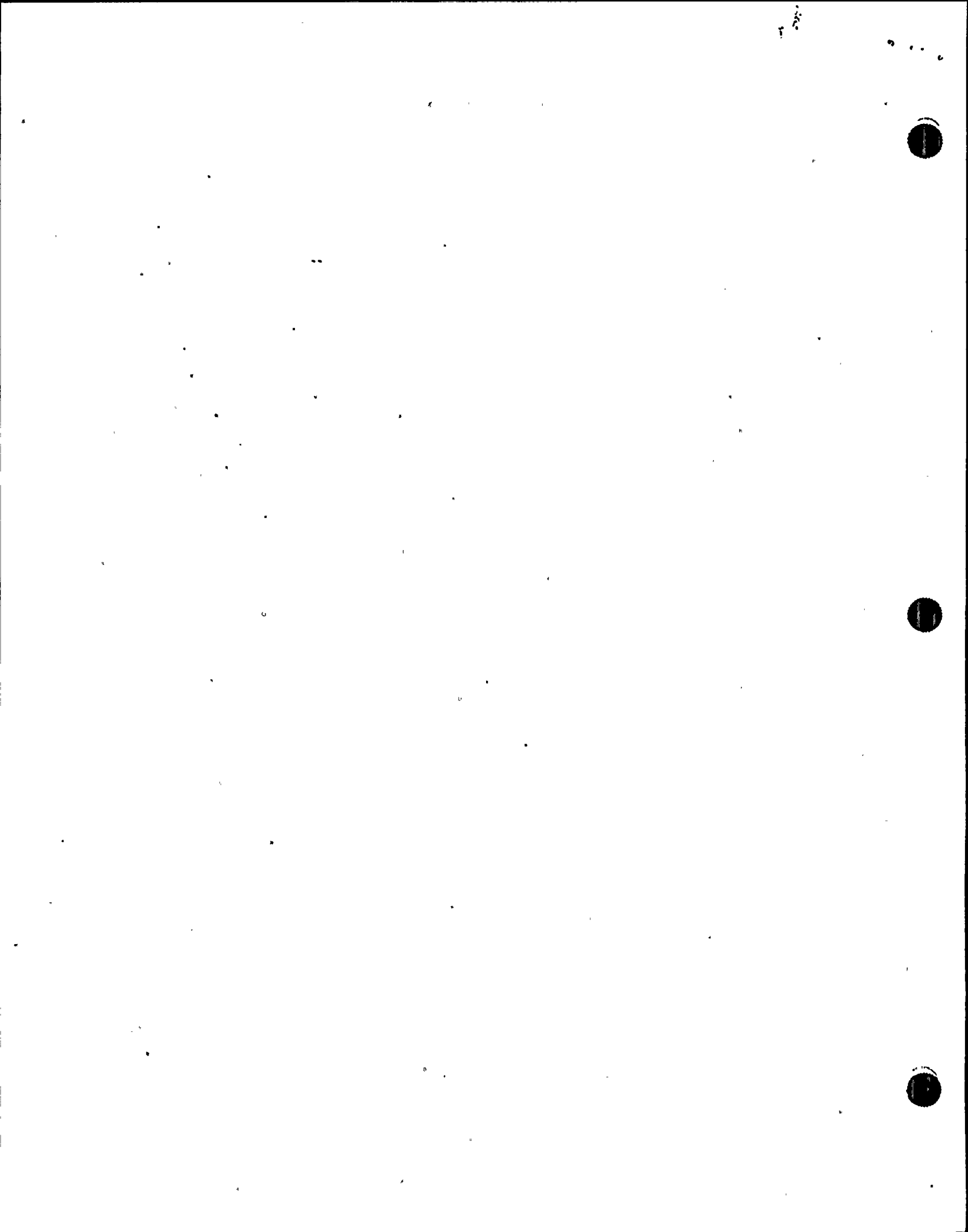
MERCURY CONTAMINATION - During the testing and inspection, the product did not come in direct contact with mercury or any of its compounds nor with any mercury containing devices employing a single boundary of containment.

Glenn Derstine
 Laboratory Supervisor

By: [Signature]
 AUTHORIZED SIGNATURE

SUBJECT TO TERMS AND CONDITIONS PRINTED ON REVERSE SIDE OF THIS FORM
 CUSTOMER COPY-ORIGINAL

160211.84



02/10/94 09:41 205 655 5511 CONSOLIDATED-PWR 007
 [RECEIVED 02/09 15:20 1994 AT 6554971 PAGE 5 (PRINTED PAGE 5)]
 02/09/94 14:37 TAYLOR FORGE STAINLESS + CFS NO.394 P005
 01/29/94 16:52 215 249 9686 LABORATORY TEST TAYLOR FORGE 002/002

TELE (717) 249-0330
 FAX (717) 249-0330

Certificate of Conformance No. 115640



LABORATORY TESTING INC.

P.O. Box 249 Dublin, Pennsylvania 18917

TAYLOR FORGE STAINLESS
 P.O. #TFS 05848

CONSOLIDATED POWER SUPPLY

THIS MTR APPLIES TO:

CUSTOMER: CPC
 PO #: 7K2901CJ

TERMS: MTR - 30 DAYS

SHIPPING ADDRESS
 122 MILL STREET, DUBLIN, PA 18917

L.T.I. Lab Report #B-83262
 Page 2 of 2

B. A Tensile test was performed on the submitted Test Specimen and it was found to be in conformance to Section 8 of ASME SA-335, Grade P22 per the following results:

	REQUIRED	ACTUAL
Tensile Strength	60,000 PSI	73,227 PSI
Yield Strength (.2%)	30,000 PSI	37,513 PSI
Elongation (In 4D)	22.0%	31.7%

CPS
 QA REVIEW
 Approved: KIK
 Date: 2/10/94

The provisions of 10CFR21 and NCA 3800 apply to this order.

This service was supplied under a Quality Systems Program, Rev. 9 dated 1/29/93 (approved 8/6/93) as qualified by Taylor Forge Stainless as meeting the requirements of NCA 3800. TFS audit date of March 26, 1993.

TAYLOR FORGE STAINLESS
 QUALITY ASSURANCE
 REVIEWED BY PL
 DATE 1-31-94

MERCURY CONTAMINATION - During the testing and inspection, the product did not come in direct contact with mercury or any of its compounds nor with any mercury containing devices employing a single boundary of containment.

Glenn Darstine
 Laboratory Supervisor

[Signature]
 AUTHORIZED SIGNATURE

SUBJECT TO TERMS AND CONDITIONS PRINTED ON REVERSE SIDE OF THIS FORM.
 CUSTOMER COPY - ORIGINAL

2/11/94

02/10/94 09:42

205 855 5511

205 855 5511

CONSOLIDATED-PWR

008

RECEIVED 02/09 15:28 1994 AT 6554071

PAGE 6 (PRINTED PAGE 6)

02/09/94 14:37

TAYLOR FORGE STAINLESS + CPS

NO.394 P086

02/02/94

14:25

215 240 9856

LABORATORY TEST

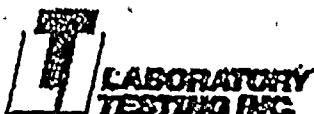
TAYLOR FORGE

001/001

TELE: (215) 240-9856

FAX: (215) 240-9856

Certificate of Conformance No. 115812



P.O. Box 249, Dublin, Pennsylvania 18917

SOLD TO

Taylor Forge Stainless

P.O. Box 610

Somerville, NJ 08876-0610

Attn: Accounts Payable

CONSOLIDATED POWER SUPPLY

TERMS: NET - 30 DAYS

THIS MTR. APPLIES TO:

CUSTOMER: CPS

PO #:

7K2901CJ

SHIP TO

SHIPPING ADDRESS
120 MILL STREET, DUBLIN, PA 18917

Attn: Jim Takacs

CUST. P.O.
TFS 06866

LAB REPORT NO.
T-83465

SHIPMENT
Complete

INVOICE DATE
2/2/94

DESCRIPTION

Page 1 of 1

1 pc. Coupon, Representing 6" x 4" Sch. 80 Tee, For use under ASME Section III, Class 2, 1974 Edition through Winter 1976 Addenda, ASME SA-234, Grade WP22S, Heat Code LJOB-1

Reference: Product No. 5375X-1

CPS QA REVIEW
Approved KIK
Date 2/10/94



A Tensile test was performed on the above Test Specimen in accordance with 82 of ASME SA-234, Grade WP22 and it was found to be in conformance to ASME SA-335 per the following results:

Tensile Strength
Yield Strength (1%)
Elongation (In 2")

REQUIRED
60,000 PSI
30,000 PSI
30.0%

HEAT CODE
LJOB-1
69,668 PSI
44,366 PSI
41.6%

TAYLOR FORGE STAINLESS

CUSTOMER: ASME SA-234

LABORATORY: 01

DATE: 2-2-94

The provisions of 10CFR21 and NCA 3800 apply to this order.

This service was supplied under a Quality Systems Program, Rev. 9 dated 1/29/93 (approved 8/6/93) as qualified by Taylor Forge Stainless as meeting the requirements of NCA 3800. TFS audit date of March 26, 1993.

MERCURY CONTAMINATION - During the testing and inspection, the product did not come in direct contact with mercury or any of its compounds or with any mercury containing devices or employing a single boundary of containment.

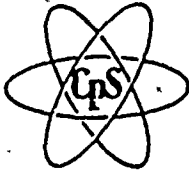
Glenn Derstine
Laboratory Supervisor

By [Signature]
AUTHORIZED SIGNATURE

SUBJECT TO TERMS AND CONDITIONS PRINTED ON REVERSE SIDE OF THIS FORM. CUSTOMER COPY-ORIGINAL

2/11/94

732-495-75



Consolidated Power Supply

CERTIFICATION *****

CUSTOMER: CAROLINA POWER & LIGHT
HARRIS NUCLEAR PLANT
SR 1134
NEW HILL, NC 27562

DATE: 01-13-94

CUSTOMER P.O. #: 7L1479CJ

SALES ORDER: 6540018

ATTN: QA RECEIPT INSPECTION

ITEM #	QTY	MATERIAL DESCRIPTION	SPEC & GRADE	MANUFACTURER	HEAT CODE
1	6 EA	10"-6" X 1" 3000# SOCKOLET PART# 732-495-75	SA105	WFI	337TNR

THIS SHALL CERTIFY THAT THE ABOVE MATERIAL WAS MANUFACTURED AND PROCESSED IN ACCORDANCE WITH SPECIFICATIONS WHICH MEET THE FOLLOWING REQUIREMENTS:

- X ASME SECTION III CLASS 2 1974 EDITION WINTER 1976 ADDENDA
- X ASME SECTION II 1983 EDITION SUMMER 1983 ADDENDA
- X CUSTOMER SPECIFICATION NUMBER: 55 REV.8
- X CUSTOMER PURCHASE ORDER REQUIREMENTS
- X 10CFR21 REQUIREMENTS
- X 10CFR50 APPENDIX B AS APPLICABLE
- X CPS Q.A. PROGRAM 3RD EDITION REV. 2 DATED 11/10/93
- X QUALITY SYSTEM CERTIFICATE #515 EXPIRATION DATE: 12/12/95

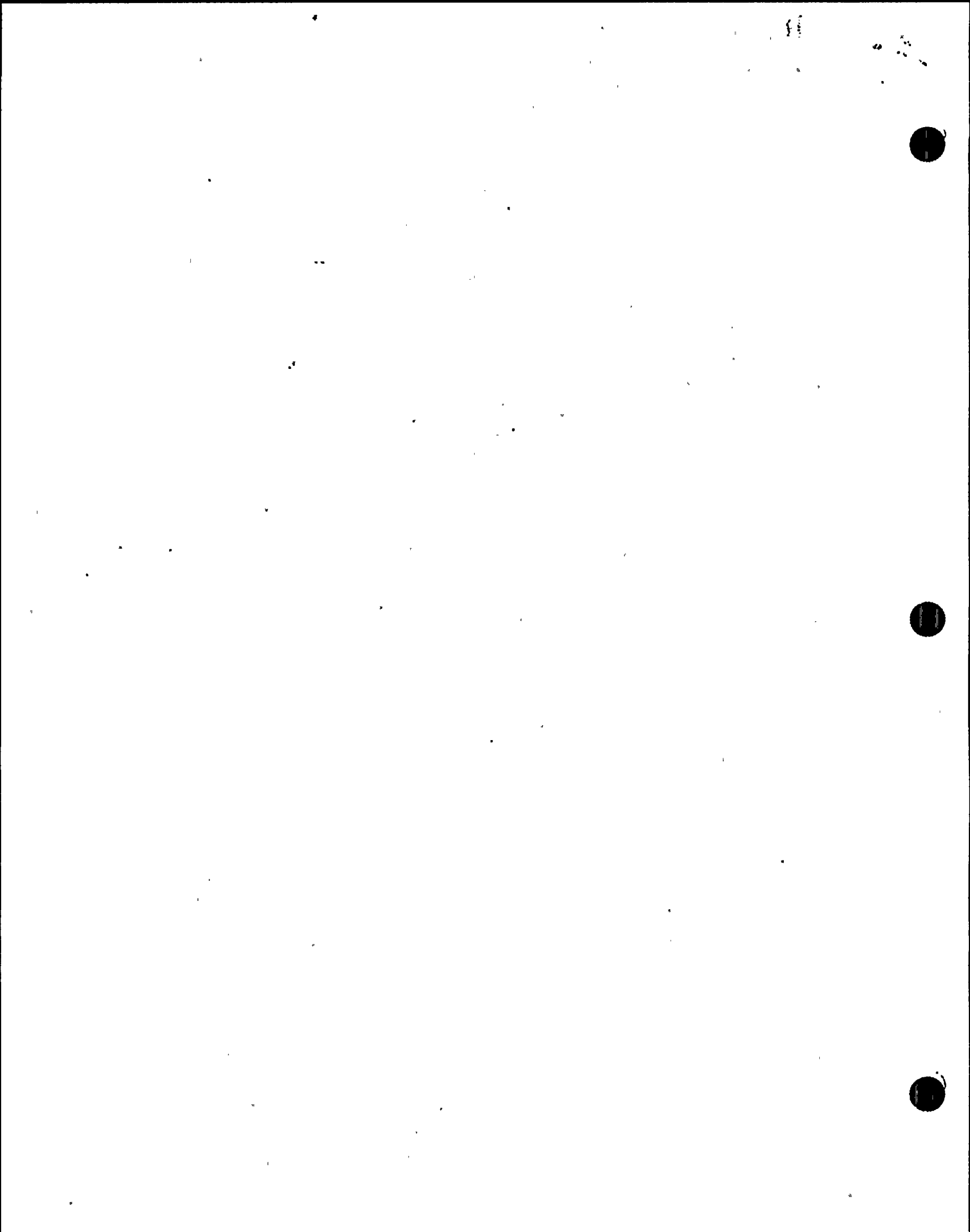
SIGNED BY:
R/RLW

Rachel L. Woods
RACHEL L. WOODS

TITLE: QA REPRESENTATIVE . DATE:

1/13/94

3556 Mary Taylor Road • Birmingham, Alabama 35235 • (205) 655-5515





CONSOLIDATED POWER SUPPLY 180002

SOLD TO

MANUFACTURER OF PIPING & PRESSURE VESSEL COMPONENTS
 THIS PRODUCT HAS NOT COME IN DIRECT CONTACT
 WITH MERCURY OR ANY OF ITS COMPOUNDS, NOR
 WITH ANY MERCURY CONTAINING DEVICE EMPLOYING
 A SINGLE BOUNDARY OF CONTAINMENT.

CUSTOMER'S ORDER NO. S65-19535	
WFI NO. N6363	DATE 2/21/91

CERTIFIED MATERIAL TEST REPORT

MATERIAL FURNISHED IAW REQUIREMENTS OF ASME SECT. III, DIVISION 1, SUBSECTION NC, CLASS 2, 1989 EDITION THRU 1989 ADD.; MATERIAL MANUFACTURED & PROCESSED IAW QUALITY SYSTEM REQUIREMENTS OF ASME SECT. III, SUB ARTICLE NCA3800 & ASME SECTION II, 1989 EDITION THRU 1989 ADD., 10CFR21 & 10CFR50 APPENDIX 'B' APPLY. NO WELDING PERFORMED.

ITEM	QUANTITY	DESCRIPTION	MATERIAL	HEAT CODE
001	50	10 - 6" X 1" 3000# SW PIPET ITEM #180002 ITEMS FURNISHED IAW OUR QUALITY SYSTEM PROGRAM ISSUE 2, REV 2 DATED 7/24/90	SA105	337TNR

CONSOLIDATED POWER SUPPLY
 THIS MATR APPLIES TO:
 CUSTOMER: CP&L
 PO # 761479CT

CPS
 QA REVIEW
 Approved JL
 Date 3-12-91

180002

CHEMICAL COMPOSITION													
LADLE	C	MN	P	S	SI	CU	NI	CR	MO	V	SN	AL	CB
	.190	1.00	.015	.007	.22	.14	.07	.13	.03	.02	.013	.024	.002
	N	TI											
	.0138	.004											
PRODUCT	C	MN	P	S	SI	CU	NI	CR	MO	V	SN	AL	CB
	.159	1.03	.0101	.0049	.228	.137	.069	.132	.0298	.016	-----	.0223	.0018
	N	TI											
	.012	.0631											

MECHANICAL PROPERTIES					
TENSILE PSI	YIELD PSI	ELONG %	RA %	HARDNESS	
82,400	55,800	28.0	54.9	17B BHN	

MATERIAL IS CAPABLE OF WITHSTANDING A HYDRO. TEST PRESSURE BASED ON PIPS OF THE SAME SCHEDULE OR WALL THICKNESS

WE CERTIFY THAT THE MATERIAL FURNISHED ON THIS ORDER COMPLIES IN ALL RESPECTS WITH THE SPECIFICATIONS AS STATED AND THAT THIS CORRECT INFORMATION IS AS CONTAINED IN OUR RECORDS.

QSC425 EXPIRATION DATE 1-16-93
John E. Harris 2/21/91

SUBSCRIBED BEFORE ME THIS _____
 DAY OF _____ 19__

HEAT TREATMENT
HOT FINISHED

NOTARY PUBLIC-HARRIS COUNTY, TEXAS

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 07/07/94
Name
P.O. Box 1551, Raleigh, N. C. 27602-1551 Address Sheet 1 of 2
2. Plant Shearon Harris Nuclear Power Plant Unit 1
Name
P.O. Box 165, New Hill, N. C. 27562-0165 Address 93-ANPH1 and PCR-6721
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power and Light Co. Type Code Symbol Stamp N/A
Name
New Hill, N.C. Address Authorization No. N/A
Expiration Date N/A
4. Identification of System Auxiliary Feedwater (3065)
5. (a) Applicable Construction Code ASME SECT. III 19 74 Edition, W 1976 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983
6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Penetration Flued Head	Tube Turns			1-AF-1-M-108	1986	Repaired	Yes
Flued Hd. to pipe in penx.	Carolina Power & Light Co.	N/A	N/A	M-10-1-01-FW-1	1994	Replacement	No
Flued Hd. to penx. sleeve	Carolina Power & Light Co.	N/A	N/A	01-M-108-AFPP	1994	Replacement	No

7. Description of Work Built up ID of existing flued head with S.S. weld matl. & rewelded to penx. sleeve and AFW piping.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks No manufacturer's data report included. Pressure testing performed in accordance with Code Case N-416 and work request
Applicable Manufacturer's Data Reports to be attached
93-ANPH7. See attached isometric drawing of the replacement welds. This replacement due to flow accelerated accelerated
corrosion concerns.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp None

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] Date 7/27, 19 94
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by The Hartford Steam Boiler Inspection and Insurance Company of One State Street, Hartford, Connecticut 06102 have inspected the components described in this Owner's Report during the period 12/02/92 to 05/12/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

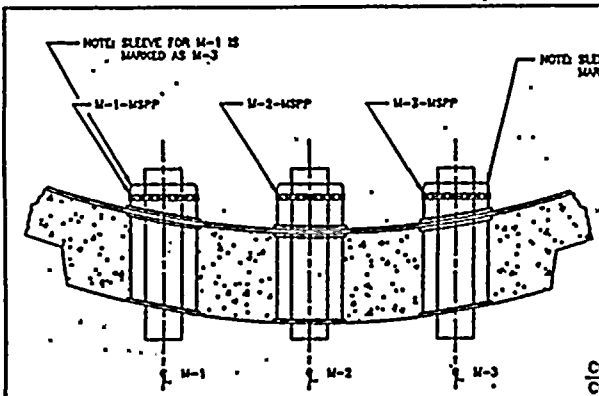
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions NC 1042
Inspector's Signature National Board, State, Province, and Endorsements

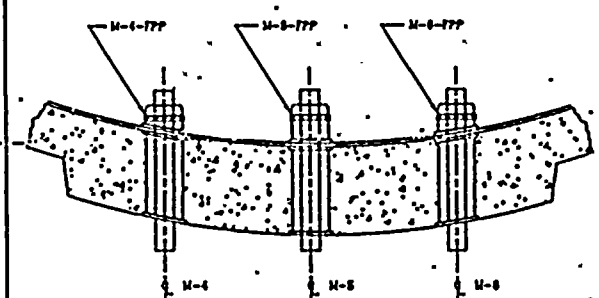
Date July 29 19 94

- Owner Carolina Power & Light Company, P.O. Box 11111, Raleigh, N. C. 27607-1111
- Plant Sharon Harris Nuclear Power Plant, Unit 1, P.O. Box 111, New Hill, N. C. 27542-0111
- Work Performed by Carolina Power and Light Co., Box 1111, N. C.
- Repair Organization P.O. No., Job No., etc. 51-4751 and PCL-1721
- Identification of System Auxiliary Feedwater (AFW)
- (a) Applicable Construction Code ASME SECT. III, 1971 Edition, V 1778 Address, Code Book
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Address, Subsec. 1151
- Identification of Components Replaced and Replacement Components

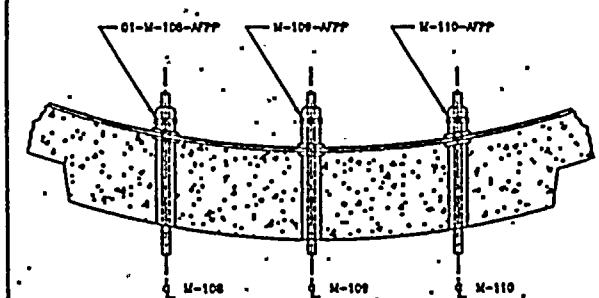
Sheet 2 of 2
Date 07/07/84



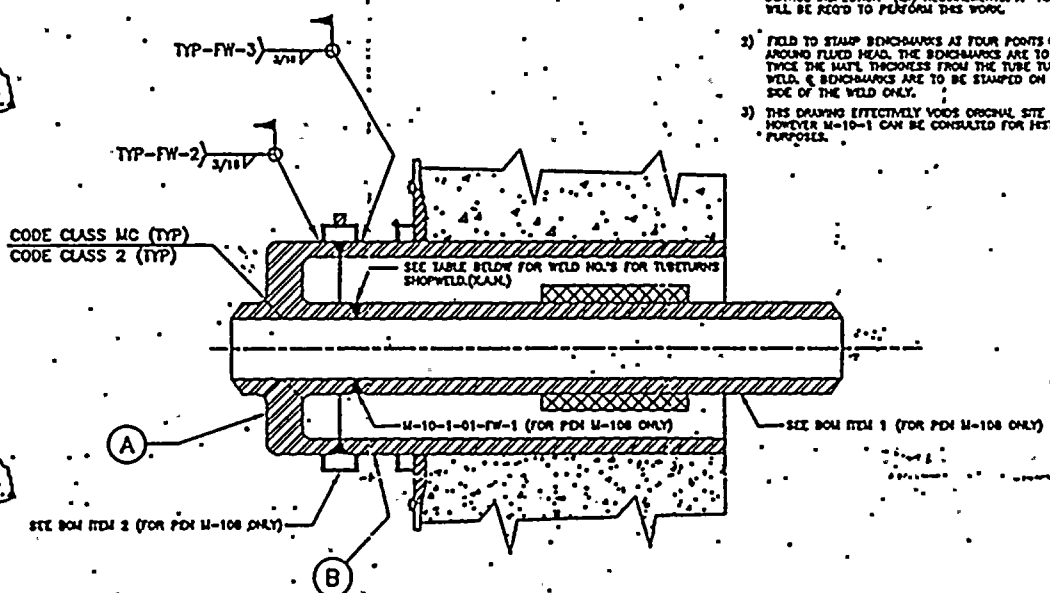
DETAIL C
(MAIN STEAM PIPE PENETRATIONS) MSPP



DETAIL D
(FEEDWATER PIPE PENETRATIONS) FPP



DETAIL F
(AUXILIARY FEEDWATER PIPE PENETRATIONS) AFPP



NOTES

- FIELD TO PREPARE TUBE TURNS SHOP WELD FOR 'IN-SERVICE INSPECTION' (ISI) REQUIREMENTS. A NUR. WILL BE REQUIRED TO PERFORM THIS WORK.
- FIELD TO STAMP BENCHMARKS AT FOUR POINTS 90° APART AROUND FLANGED HEAD. THE BENCHMARKS ARE TO BE 3" PLUS TWICE THE MATL. THICKNESS FROM THE TUBE TURNS SHOPWELD. B BENCHMARKS ARE TO BE STAMPED ON EAST SIDE OF THE WELD ONLY.
- THIS DRAWING EFFECTIVELY Voids ORIGINAL SITE ESO M-10-1, HOWEVER M-10-1 CAN BE CONSULTED FOR HISTORICAL PURPOSES.

WELD NUMBER	TYPE OF WELD	MATERIAL SEE ①	THICKNESS OF MATERIAL	TUBE TURNS' SHOPWELD NO.
M-1-MSPP	BUTT	SEE TABLE	2.75"	M-1-TT-SW-1
M-2-MSPP	BUTT			M-2-TT-SW-1
M-3-MSPP	BUTT			M-3-TT-SW-1
M-4-FPP	BUTT		2.00"	M-4-TT-SW-1
M-5-FPP	BUTT			M-5-TT-SW-1
M-6-FPP	BUTT			M-6-TT-SW-1
01-M-108-AFPP	BUTT		.843	(SEE DRAWING)
M-108-AFPP	BUTT			N/A
M-110-AFPP	BUTT			

- ① FLUDED HEAD MATERIAL
- ② PIPE SLEEVE MATERIAL

REF. DWG. CAR-3185-8-044 & 65
1304-1330S, 1304-13302, 1304-13305

740-071-83
14798

DATE	BY	DESCRIPTION	REV.	NO.

CAROLINE POWER & LIGHT
SHARON HARRIS NUCLEAR POWER PLANT
ALL PENETRATIONS WELDED - MAIN STEAM,
FEEDWATER, AUX FEEDWATER PENETRATIONS
PLANT DWG. NO. CAR-3185-8-044/65
REV. 07/28, 8/82

MASTED COPY 93-AUPH-17

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 07/07/94
Name
P.O. Box 1551, Raleigh, N. C. 27602-1551 Sheet 1 of 2
Address
2. Plant Shearon Harris Nuclear Power Plant Unit 1
Name
P.O. Box 165, New Hill, N. C. 27562-0165 93-ANPH1 and PCR-6721
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power and Light Co. Type Code Symbol Stamp N/A
Name
New Hill, N.C. Authorization No. N/A
Address Expiration Date N/A
4. Identification of System Auxiliary Feedwater (3065)
5. (a) Applicable Construction Code ASME SECT. III 1974 Edition, W 1976 Addenda, _____ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1AF-Piping A Loop	Southwest Fab. & Welding Co.	See Remarks	See Remarks	1-AF-1-01	1986	Replaced	Yes
1AF-Piping	Carolina Power & Light Co.	N/A	N/A	1-AF-1-02 See att. dwg.	1994	Replacement	No

7. Description of Work Replaced Portions of "A" loop of the S/G AFW Preheater Bypass 6" piping inside containment due to flow accelerated corrosion concerns.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks See attached certificates of compliance which apply to this and the following NIS-2. This replacement includes line number
Applicable Manufacturer's Data Reports to be attached
2AF6-93SAB-1 from weld 1-AF-1-02-FW-1 at penx. M-108 to 1-AF-1-02-FW-10 and 1-AF-1-02-FW-11 to 1-AF-1-02-FW-25. Pressure
testing was performed per Code Case N-416 and work request 93-ANPH7. Isometric drawing of the replacement components provided
in lieu of specifying replaced components manufacturer's serial number and national board number.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the
ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp None

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

[Signature]

Mgr ET

Date

7/27

, 19

94

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the
State or Province of North Carolina and employed by The Hartford Steam Boiler Inspection and Insurance Company of
One State Street, Hartford, Connecticut 06102 have inspected the components described
in this Owner's Report during the period 12/02/92 to 05/12/94, and state that
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
this inspection,

[Signature]

Inspector's Signature

Commissions NC 1042

National Board, State, Province, and Endorsements

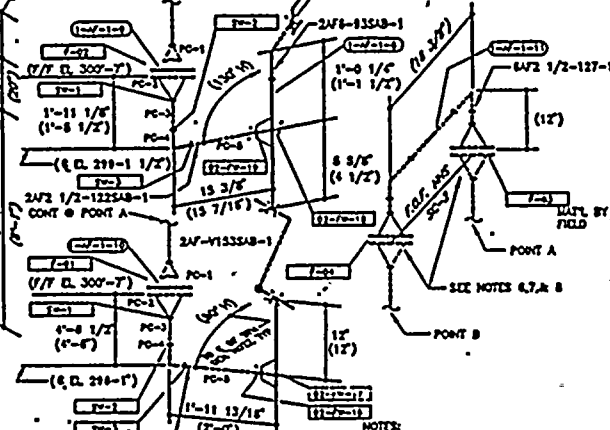
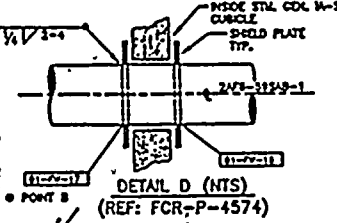
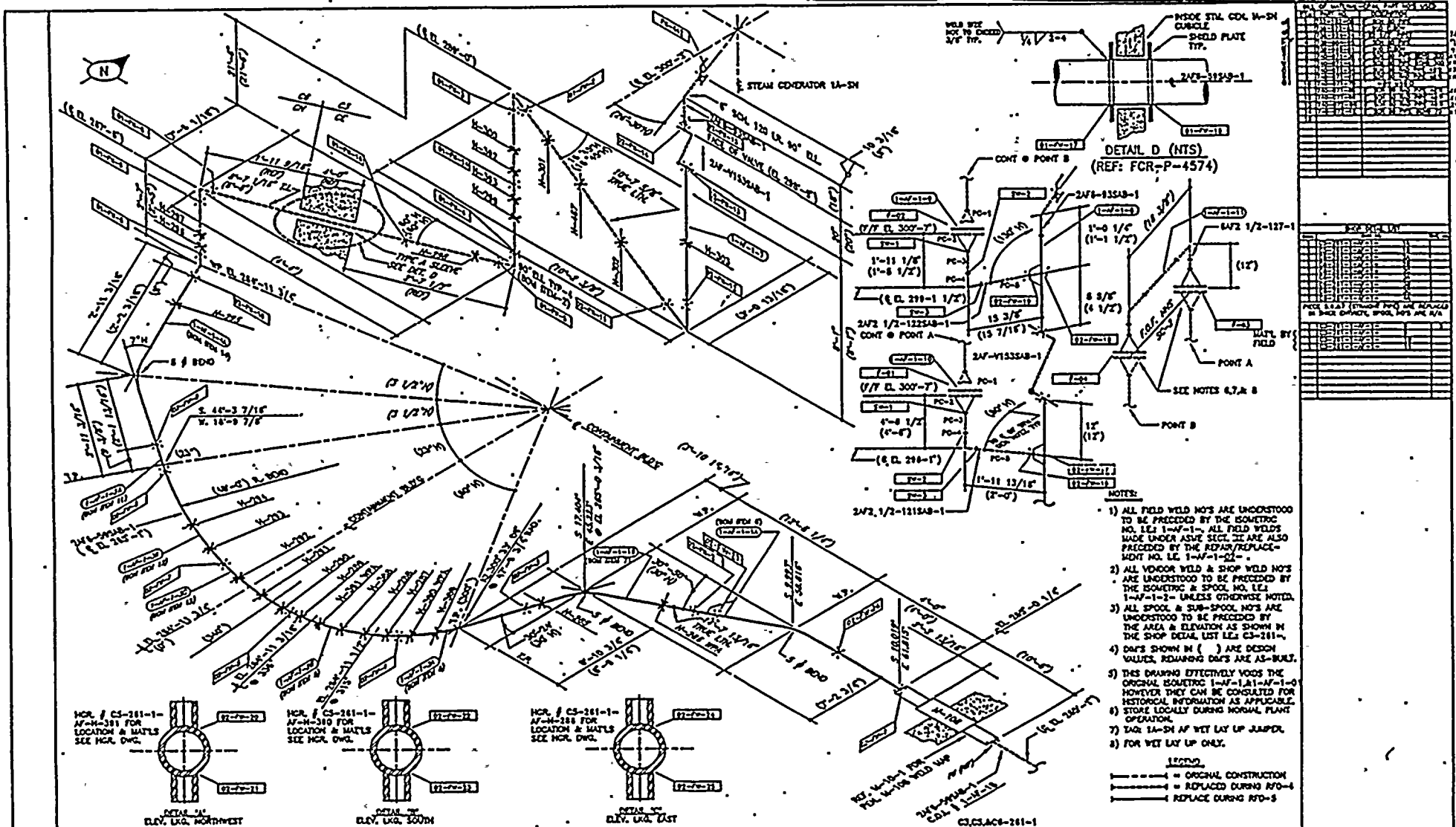
Date

July 29

19

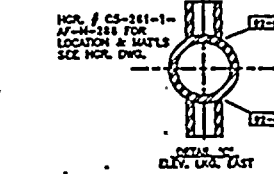
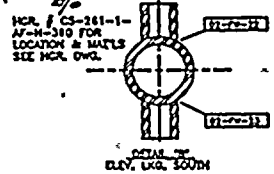
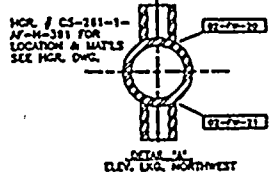
94

- Owner Carolina Power & Light Company P.O. Box 1111, Raleigh, N.C. 27602-1111
- Plant Sharon Station Nuclear Power Plant Unit 1 P.O. Box 1111, New Hill, N.C. 27542-8141
- Work Performed by Carolina Power and Light Co., Box 1111, P.C.
- Repair Organization P.O. No., Job No., etc. 92-10001 and 92-10002
- Identification of System Auxiliary Feedwater (AFW)
- Applicable Construction Code ASME SEC. III, 1975, Edition, 1977 Addenda _____ Code Case _____
- Applicable Edition of Section III Willful for Repairs or Replacements 19 _____ Addenda _____
- Identification of Components Replaced and Replacement Components _____

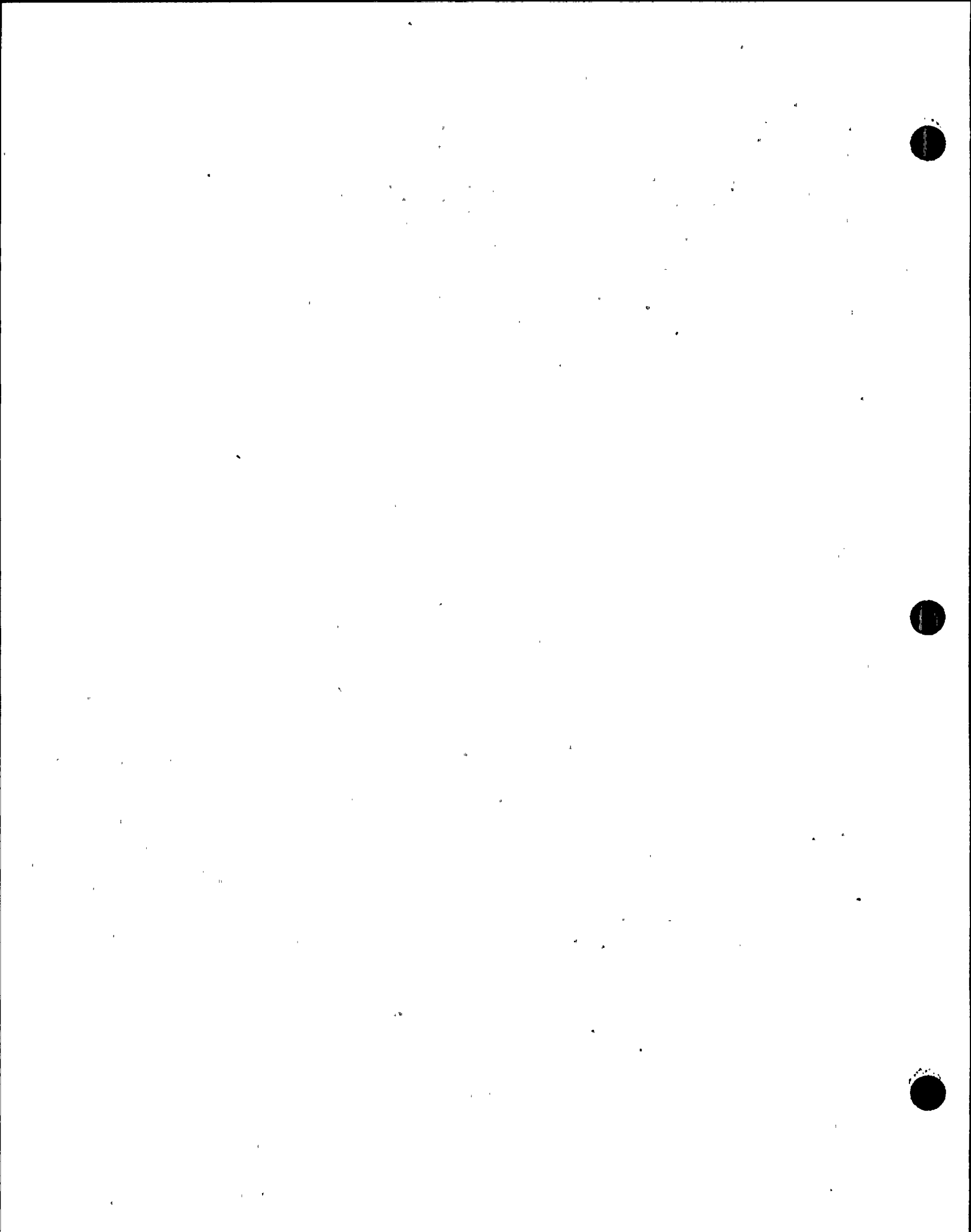


- NOTES:
- 1) ALL FIELD WELD NO'S ARE UNDERSTOOD TO BE PRECEDED BY THE ISOMETRIC NO. LE 1-W-1-0. ALL FIELD WELDS MADE UNDER ASME SECT. III ARE ALSO PRECEDED BY THE REPAIR/REPLACEMENT NO. LE 1-W-1-02.
 - 2) ALL VOOOR WELD & SHOP WELD NO'S ARE UNDERSTOOD TO BE PRECEDED BY THE ISOMETRIC & SPOOL NO. LE 1-W-1-0 UNLESS OTHERWISE NOTED.
 - 3) ALL SPOOL & SUB-SPOOL NO'S ARE UNDERSTOOD TO BE PRECEDED BY THE AREA & ELEVATION AS SHOWN IN THE SHOP DRAW LIST LES CS-261-1.
 - 4) DATA SHOWN IN () ARE DESIGN VALUES. REMAINING DATA ARE AS-BUILT.
 - 5) THIS DRAWING EFFECTIVELY VOODS THE ORIGINAL ISOMETRIC 1-W-1-0, 1-A1-1-W-1-0 HOWEVER THEY CAN BE CONSULTED FOR HISTORICAL INFORMATION AS APPLICABLE.
 - 6) STORE LOCALLY DURING NORMAL PLANT OPERATION.
 - 7) TAG 1A-SH AF WET LAY UP JUMPER.
 - 8) FOR WET LAY UP ONLY.

LEGEND:
 - - - - - ORIGINAL CONSTRUCTION
 = = = = = REPLACED DURING RTD-4
 - - - - - REPLACE DURING RTD-5



ITEM NO.	QTY	DESCRIPTION	SPECIFICATION	REVISION	ORIGINAL CONSTRUCTION DATE	
					DATE	BY
1	1
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DUBOSE NATIONAL ENERGY SERVICES, INC.
HWY 24, ROSEBORO, NC 28382
Certificate of Conformance/Compliance

Customer CAROLINA POWER & LIGHT

Date 11/03/92 Serial No. 30848

Our DC No. 91663 D

THIS MATERIAL MEETS THE REQUIREMENTS
OF YOUR PO NUMBER 7D7194-DK

NEW HILL, NC 27562

ITEM	PIECES	DESCRIPTION SPECIFICATION	GRADE	HEAT NUMBER/ HEAT CODE
2	4	6" X 2 1/2" S/80 ASME SA105	B/W PIPET	Y4 WFI

THIS IS TO CERTIFY THAT THIS MATERIAL HAS BEEN SUPPLIED IN ACCORDANCE WITH DUBOSE NATIONAL ENERGY SERVICES, INC. QUALITY SYSTEM PROGRAM REV. 0, DATED 9-30-91 IN COMPLIANCE WITH 10CFR50 APP. B AND THE MATERIAL DESCRIBED MEETS THE SPECIFICATIONS. NOTED.

Based upon our review of the manufacturer's CMTR this material supplied in accordance with the 1974 Edition thru Winter 1976 Addenda, Section III NA3700/NCA3800, Subsection NC Class 2.


ASME Section II 1983 Edition Summer 1983 Addenda.

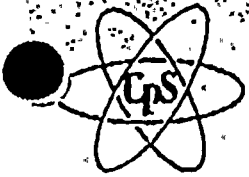
10CFR21

ASME QSC 327 Expires 3-31-93

SPEC. 55, REV. 8

No impact testing or examination performed.


James N. Dailey, QA Manager Date 11/4/92
Ruth Barber-Rich, Assistant QA Manager
Laurie Dickson, Certification Engineer



Consolidated Power Supply

CERTIFICATION *****

CUSTOMER: CAROLINA POWER & LIGHT
HARRIS NUCLEAR PLANT
SR 1134
NEW HILL, NC 27562

**REVISED 02-17-94
DATE: 02-08-94

CUSTOMER P.O. #: 7K2901CJ

SALES ORDER: 6538266A

ATTN: QA RECEIPT INSPECTION

ITEM #	QTY	MATERIAL DESCRIPTION	SPEC & GRADE	MANUFACTURER	HEAT CODE
2	34.8 FT	6" SCH 80 CHROME-MOLY SMJS. PIPE 17-21'R/L PART# 739-884-95	**SA335 GR. P22	SUMITOMO CPS CUTCODE: 1VY	J239082

THIS SHALL CERTIFY THAT THE ABOVE MATERIAL WAS MANUFACTURED AND PROCESSED IN ACCORDANCE WITH SPECIFICATIONS WHICH MEET THE FOLLOWING REQUIREMENTS:

- X ASME SECTION III NCA3867.4(e) UPGRADED MATERIAL
- X ASME SECTION III CLASS 2, 1974 EDITION WINTER 1976 ADDENDA
- X ASME SECTION II 1983 EDITION SUMMER 1983 ADDENDA
- X CUSTOMER SPECIFICATION NUMBER: AS LISTED IN YOUR P.O.
- X CUSTOMER PURCHASE ORDER REQUIREMENTS
- X 10CFR21 REQUIREMENTS
- X 10CFR50 APPENDIX B AS APPLICABLE
- X CPS Q.A. PROGRAM 3RD EDITION REV. 2 DATED 11/30/93
- X QUALITY SYSTEM CERTIFICATE #515. EXPIRATION DATE: 12/12/95

SIGNED BY:
R/RLW
S/KMK

Rachel L. Woods
RACHEL L. WOODS

TITLE: QA REPRESENTATIVE

DATE: 2/17/94

3556 Mary Taylor Road • Birmingham, Alabama 35235 • (205) 655-5515

DUBOSE NATIONAL ENERGY SERVICES, INC.
HWY 24, ROSEBORO, NC 28382
Certificate of Conformance/Compliance/CMTR

Customer:

CAROLINA POWER AND LIGHT
SHEARON-HARRIS PLANT
SR #1134
NEW HILL, NC

27562

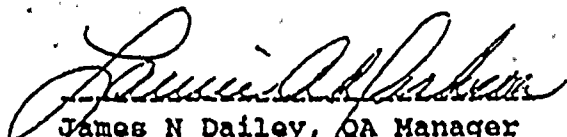
Date 2/24/94 Serial No. 35192 D
Our DC No. 97314
This material meets the requirements
of your PO number 7L1364-CJ

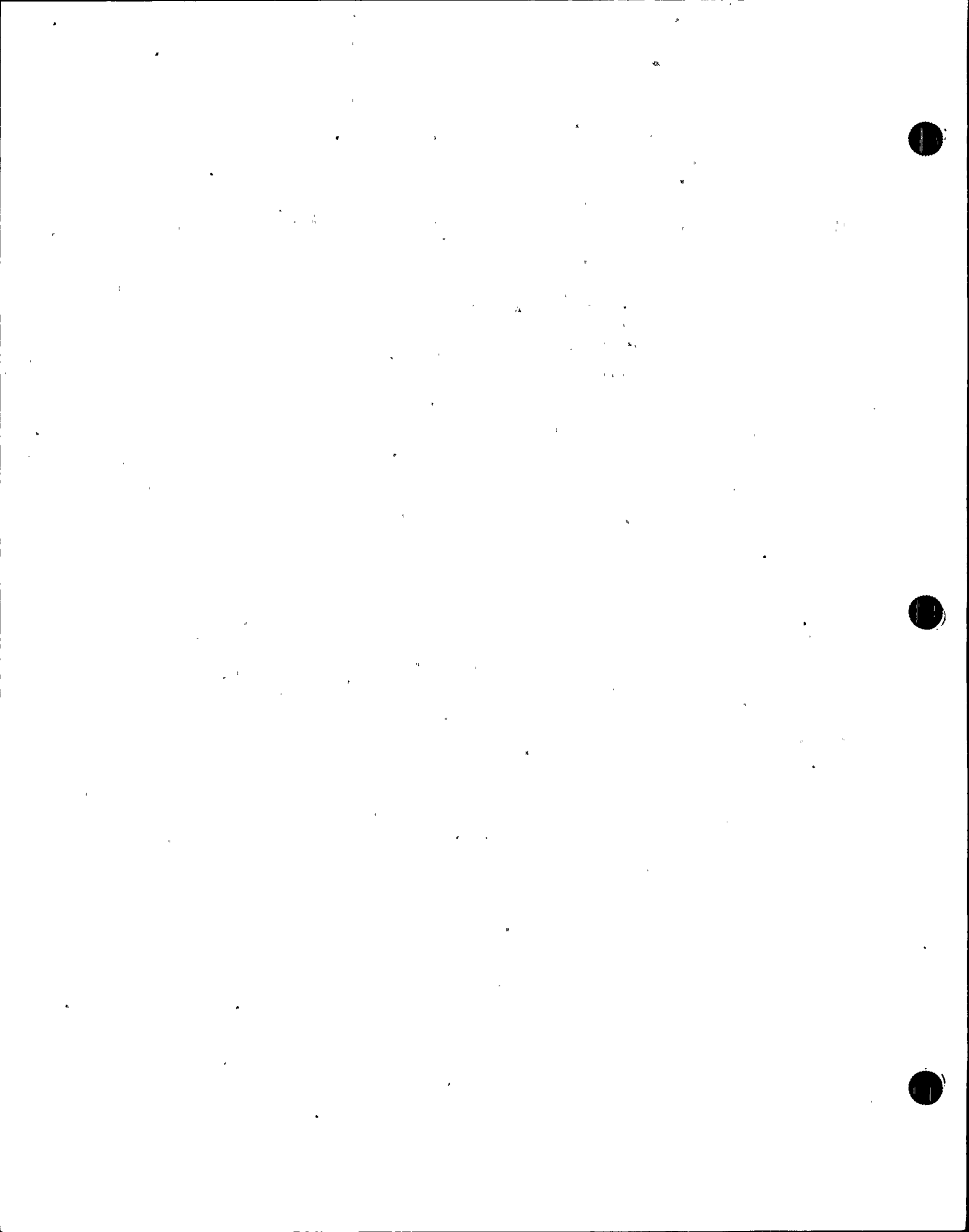
Item	Pieces	Description Specification.	Grade	Heat #./ Heat Code
1	6	6" S/80 BW LR 90 ELBOW ASME SA234	WP22 LADISH	11ZC1-H
1	5	6" S/80 BW LR 90 ELBOW ASME SA234	WP22 LADISH	11ZC2-H
1	1	6" S/80 BW LR 90 ELBOW ASME SA234	WP22 LADISH	11ZC3-H

This material has been supplied in accordance with DuBose National Energy Services, Inc. Quality System Program Rev. 1, dated 01-13-93 in compliance with 10CFR50 APP. B. The contents of the report are correct and accurate and the results are in compliance with the material specification, the code, and the customer purchase order.

Based upon our review of the manufacturer's CMTR this material supplied in accordance with the 1974 Edition thru Winter 1976 Addenda, Section III NA3700/NCA3800, Subsection NC Class 2:

ASME Section II 1983 Edition Summer 1983 Addenda.
NO IMPACT TESTING OR NDE PERFORMED.
10CFR21
ASME QSC 327 EXPIRES 3-31-96
SPEC. 055 REV. 8

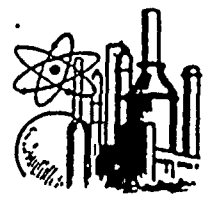

James N Dailey, QA Manager Date 2/24/94
Ruth Barber-Rich, Assistant QA Manager
Laurie Dickson, Certification Engineer
Tammy Williams, QA Technician





XTA3000 252

RADNOR ALLOYS, INC.



TUBULAR PRODUCTS FOR THE ENERGY INDUSTRIES

950 Frank E. Rodgers Blvd. South
Harrison, New Jersey 07029-2402
(201) 485-8888
FAX: (201) 485-3858

MATERIAL CERTIFICATION

Subject: Connex Pipe Systems
Purchase Order No. E4371-1

Description: Seamless Alloy Steel Pipe per ASME SA 335, P22

Item No. 1 6" S/80(.432" A/W) X 35' Min R/L
Tag #'s B-671 & B-672 (Heat No. - N72109)
Tag #'s B-673, B-674 & B-675 (Heat No. - 55330)

(Manufacturer - Nippon Steel)(2pcs)
(Manufacturer - Vallourec Ind.) (3pcs)

Additional Testing: Testing as required by ASME Section III, Subsubparagraph
NCA-3867.4(e).

Certification: Based on our review of supporting documents, the material described herein is certified as meeting the requirements of the purchase order and ASME Boiler and Pressure Vessel Code Section II Class 2 for the 1989 Edition, 1989 Addenda. Material has been processed in accordance with our Quality System Program Third Edition, Revision 0 dated 9-22-93 accredited by the ASME under Quality System Certificate (Materials) QSC-526 which expires 11-27-96.

Attachments: QMIR (2)
Lab Report (1)

Terry Kolokoski
Terry Kolokoski
Representative, Quality Assurance
Date 12/16/93



TELE: (215) 249-9898
FAX: (215) 249-9656

Certificate of Conformance No. 113892

TERMS: NET - 30 DAYS

ETA380252

LABORATORY TESTING INC.

P.O. Box 249 Dublin, Pennsylvania 18917

SHIPPING ADDRESS
120 MILL STREET, DUBLIN, PA 18917

SOLD TO
Radnor Alloys, Inc.
950 South Fourth Street
Harrison, NJ 07029
Attn: Accounts Payable

SHIP TO
Attn: Terry Kolokoski

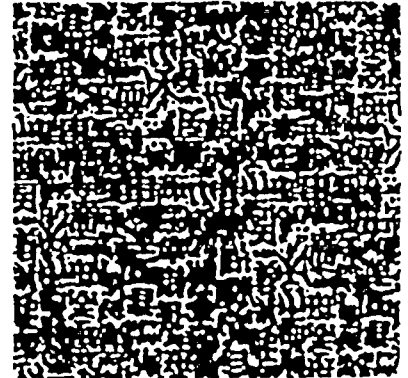
CUST. P.O.
RA 14478-N

LAB REPORT NO.
H/B-81512

SHIPMENT
Complete

INVOICE DATE
12/15/93

DESCRIPTION Page 1 of 2
6" Sch. 80 x Double R/L Seamless Alloy Steel Pipes
per ASME Section III, Class 2, 1989 Edition through
1989 Addenda, ASME SA-335, Grade P22, Total Foot-
age 194' 9":
2 pcs. Heat #N72109, Tag #B-671 and #B-672
3 pcs. Heat #55330, Tag #B-673, #B-674 and
#B-675



Reference: Order #J26198

Q.A. APPROVED

BY: *T. Kolokoski* DATE: 12/15/93

TERRY KOLOKOSKI

RADNOR ALLOYS, INC.

- A. The above material was 100% Hydrostatically Pressure tested at 2,350 PSI, held for fifteen seconds in accordance with ASME SA-335, Grade P22 and ASTM A-530 using L.T.I. Procedure HY-1, Rev. 1 dated 10/22/90 and (5) pieces representing (194' 9" were found to be acceptable to those requirements.
- B. Five pieces of the above referenced samples were submitted to chemical content evaluation by Spectroscopic Analysis and (5) pieces were found to be in conformance to ASME SA-335, Grade P22. The results are as follows:

<u>ELEMENT</u>	<u>REQUIRED</u>	<u>TAG</u> <u>#B-671</u>	<u>TAG</u> <u>#B-672</u>	<u>TAG</u> <u>#B-673</u>	<u>TAG</u> <u>#B-674</u>	<u>TAG</u> <u>#B-675</u>
Carbon	0.15 maximum	0.13	0.13	0.11	0.11	0.11
Manganese	0.30 - 0.60	0.48	0.50	0.53	0.53	0.53
Phosphorus	0.025 maximum	0.008	0.007	0.013	0.013	0.013
Sulfur	0.025 maximum	0.003	0.002	0.005	0.004	0.005
Silicon	0.50 maximum	0.20	0.21	0.20	0.20	0.20
Chromium	1.90 - 2.60	2.05	2.09	2.15	2.12	2.13
Molybdenum	0.87 - 1.13	0.90	0.92	0.95	0.94	0.93

MERCURY CONTAMINATION - During the testing and inspection, the product did not come in direct contact with mercury or any of its compounds nor with any mercury containing devices employing a single boundary of containment.

Glenn Derstine
Laboratory Supervisor

By: *Glenn Derstine*
AUTHORIZED SIGNATURE

SUBJECT TO TERMS AND CONDITIONS PRINTED ON REVERSE SIDE OF THIS FORM



TELE: (215) 249-9898
FAX: (215) 249-9656

Certificate of Conformance No. 113892

TERMS: NET - 30 DAYS

CTA 300252



LABORATORY TESTING INC.

P.O. Box 249 Dublin, Pennsylvania 18917

SHIPPING ADDRESS
120 MILL STREET, DUBLIN, PA 18917

RADNOR ALLOYS, INC.
P.O. #RA 14478-N

L.T.I. Lab Report #H/B-81512
Page 2 of 2

C. A Tensile test was performed on (5) pieces of the submitted Test Specimens and (5) pieces were found to be in conformance to ASME SA-335, Grade P22 per the following results:

TAG # REQUIRED	TENSILE STRENGTH 60,000 PSI	YIELD (.2%) STRENGTH 30,000 PSI	ELONGATION (In 2") 30.0%
B-671	79,959 PSI	62,515 PSI	33.4%
B-672	76,786 PSI	59,143 PSI	33.5%
B-673	92,329 PSI	73,028 PSI	31.4%
B-674	92,419 PSI	73,274 PSI	30.1%
B-675	93,333 PSI	73,874 PSI	30.0%

D. A Flattening test was performed on (5) pieces (Tag #B-671, #B-672, #B-673, #B-674 and #B-675) in accordance with ASME SA-335, Grade P22 and (5) pieces were found to be in conformance to ASTM A-530 with no cracks after flattening to 3.034". The pieces were then flattened until sides met.

Q.A. APPROVED
BY: T. Kolokoski DATE: 12/10/93
TERRY KOLOKOSKI
RADNOR ALLOYS, INC.

All tests and examinations were performed in accordance with L.T.I. Quality System Program Manual, Rev. 9 dated 1/29/93 (approved 8/12/93) which was audited and approved by Radnor Alloys, Inc. on 3/9/93 as conforming to ASME Section III, NCA-3800. All testing complies with Radnor Alloys Specification NPD-1, Rev. 2, Paragraphs 1, 2, 15 and 29.

MERCURY CONTAMINATION: During the testing and inspection, the product did not come in direct contact with mercury or any of its compounds nor with any mercury containing devices employing a single boundary of containment.

Glenn Derstine
Laboratory Supervisor

By: Glenn Derstine
AUTHORIZED SIGNATURE



FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 07/07/94
 Name
P.O. Box 1551, Raleigh, N. C. 27602-1551 Sheet 1 of 2
 Address
 2. Plant Shearon Harris Nuclear Power Plant Unit 1
 Name
P.O. Box 165, New Hill, N. C. 27562-0165 93-ANPJ1 and PCR-6721
 Address Repair Organization P.O. No., Job No., etc.
 3. Work Performed by Carolina Power and Light Co. Type Code Symbol Stamp N/A
 Name Authorization No. N/A
New Hill, N.C. Address Expiration Date N/A

4. Identification of System Auxiliary Feedwater (3065)

5. (a) Applicable Construction Code ASME SECT. III 19 74 Edition, W 1976 Addenda, _____ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1AF-Piping C Loop	Southwest Fab. & Welding Co.	See Remarks	See Remarks	1-AF-2-01	1986	Replaced	Yes
1AF-Piping C Loop	Carolina Power & Light Co.	N/A	N/A	1-AF-2-02	1994	Replacement	No

7. Description of Work Replaced portions of "C" Loop of the S/G AFW Preheater Bypass 6" piping inside containment due to flow accelerated corrosion concerns.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks See attached certificates of compliance and those attached to the NIS-2 for R/R# 1-AF-1-02. This replacement includes
Applicable Manufacturer's Data Reports to be attached
pipe line number 2AF6-91SAB-1 between welds 1-AF-2-02-FW-35 AND 1-AF-2-02-FW-20. Pressure testing was performed per Code Case
N-416 and work request 93-ANPH7. Isometric dwg. of the replacement components provided in lieu of specifying replaced components
manufacturer's serial number and national board number.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the
repair or replacement
ASME Code, Section XI.

Type Code Symbol Stamp None

Certificate of Authorization No. N/A

Expiration Date N/A

Signed [Signature]

Date 7/27, 19 94

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the
State or Province of North Carolina and employed by The Hartford Steam Boiler Inspection and Insurance Company of
One State Street, Hartford, Connecticut 06102 have inspected the components described
in this Owner's Report during the period 12/02/92 to 05/12/94, and state that
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
this inspection,

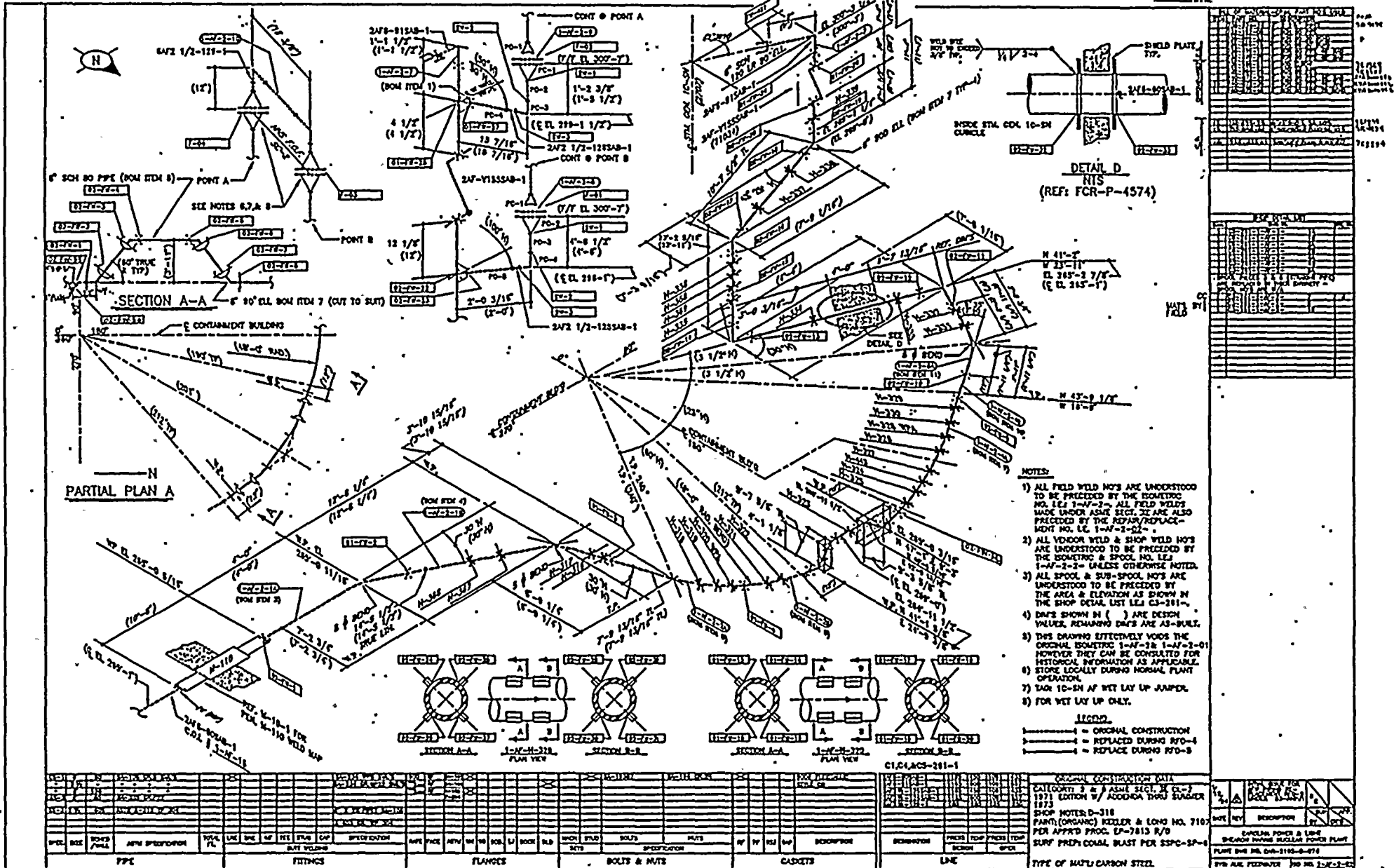
[Signature]
Inspector's Signature

Commissions NC 1042

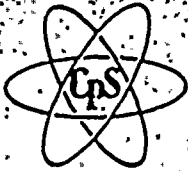
National Board, State, Province, and Endorsements

Date July 29 19 94

- Owner Carolina Power & Light Company P.O. Box 3551, Raleigh, N. C. 27602-3551
- Plant Stanleyville Nuclear Power Plant, Unit 1 P.O. Box 355, New Hill, N. C. 27542-0355
- Work Performed by Carolina Power and Light Co., New Hill, N. C.
Repair Organization P.O. No., Job No., etc. 77-AM-21 and 77-171
- Identification of System Auxiliary Feedwater (AFW)
- (a) Applicable Construction Code ASME SECT. III, 1975 Edition, W-1975 Addenda _____ Code Case _____
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 Addenda Number 1523
- Identification of Components Repaired and Replacement Components _____



MAILED



Consolidated Power Supply

CERTIFICATION *****

CUSTOMER: CAROLINA POWER & LIGHT
HARRIS NUCLEAR PLANT
SR 1134
NEW HILL, NC . 27562

DATE: 01-13-94

CUSTOMER P.O. #: 7L1479CJ

SALES ORDER: 6540018

ATTN: QA RECEIPT INSPECTION

ITEM #.	QTY	MATERIAL DESCRIPTION	SPEC & GRADE	MANUFACTURER	HEAT CODE
1	6 EA	10"-6" X 1" 3000# SOCKOLET PART# 732-495-75	SA105	WFI	337TNR

THIS SHALL CERTIFY THAT THE ABOVE MATERIAL WAS MANUFACTURED AND PROCESSED IN ACCORDANCE WITH SPECIFICATIONS WHICH MEET THE FOLLOWING REQUIREMENTS:

- X ASME SECTION III CLASS 2 1974 EDITION WINTER 1976 ADDENDA
- X ASME SECTION II 1983 EDITION SUMMER 1983 ADDENDA
- X CUSTOMER SPECIFICATION NUMBER: 55 REV.8
- X CUSTOMER PURCHASE ORDER REQUIREMENTS
- X 10CFR21 REQUIREMENTS
- X 10CFR50 APPENDIX B AS APPLICABLE
- X CPS Q.A. PROGRAM 3RD EDITION REV. 2 DATED 11/10/93
- X QUALITY SYSTEM CERTIFICATE #515 EXPIRATION DATE: 12/12/95

SIGNED BY:
R/RLW

Rachel L. Woods
RACHEL L. WOODS

TITLE: QA REPRESENTATIVE

DATE: 1/13/94

3556 Mary Taylor Road • Birmingham, Alabama 35235 • (205) 655-5515

A Division of Consolidated Pipe & Supply Co., Inc. Birmingham, AL





CONSOLIDATED POWER SUPPLY

180002

SOLD TO

NUCLEAR PRODUCTS, INC.

MANUFACTURER OF PIPING & PRESSURE VESSEL COMPONENTS
 THIS PRODUCT HAS NOT COME IN DIRECT CONTACT
 WITH MERCURY OR ANY OF ITS COMPOUNDS, NOR
 WITH ANY MERCURY CONTAINING DEVICE EMPLOYING
 A SINGLE BOUNDARY OF CONTAINMENT.

CUSTOMER'S ORDER NO.
 S65-19535

WFI NO.
 N6363

DATE
 2/21/91

CERTIFIED MATERIAL TEST REPORT

MATERIAL FURNISHED IAW REQUIREMENTS OF ASME SECT. III, DIVISION 1, SUBSECTION NC, CLASS 2, 1989 EDITION THRU 1989 ADD.; MATERIAL MANUFACTURED & PROCESSED IAW QUALITY SYSTEM REQUIREMENTS OF ASME SECT. III, SUB ARTICLE NCA3800 & ASME SECTION II, 1989 EDITION THRU 1989 ADD., 10CFR21 & 10CFR50 APPENDIX 'B' APPLY. NO WELDING PERFORMED.

ITEM	QUANTITY	DESCRIPTION	MATERIAL	HEAT CODE
B01	50	10 - 6" X 1" 3000# SW PIPET ITEM #180002 ITEMS FURNISHED IAW OUR QUALITY SYSTEM PROGRAM ISSUE 2, REV 2 DATED 7/24/90	SA105	337TNR

CONSOLIDATED POWER SUPPLY
 THIS MATR APPLIES TO:
 CUSTOMER: CP&L
 PO # 7L147905

CP5
 QA REVIEW
 Approved JL
 Date 3-12-91

180002

CHEMICAL COMPOSITION

TABLE	C	MN	P	S	SI	CU	NI	CR	MO	V	SN	AL	CB
	.190	1.00	.015	.007	.22	.14	.07	.13	.03	.0	.014	.024	.002
	N	TI											
	.0138	.004											
PRODUCT	C	MN	P	S	SI	CU	NI	CR	MO	V	SN	AL	CB
	.159	1.03	.0101	.0049	.228	.137	.0691	.132	.0298	.016	-----	.0223	.0018
	N	TI											
	.012	.0631											

MECHANICAL PROPERTIES

	TENSILE PH	YIELD PH	ELONG W	RA W	HARDNESS
MILL	82,400	55,800	28.0	54.9	
PRODUCT					17H BHN

MATERIAL IS CAPABLE OF WITHSTANDING A HYDRO. TEST PRESSURE BASED ON PIPS OF THE SAME SCHEDULE OR WALL THICKNESS

WE CERTIFY THAT THE MATERIAL FURNISHED ON THIS ORDER COMPLIES IN ALL RESPECTS WITH THE SPECIFICATIONS AS STATED AND THAT THIS CORRECT INFORMATION IS AS CONTAINED IN OUR RECORDS.

QSC425 EXPIRATION DATE 1-16-93

John E. Harris 2/21/91

SUBSCRIBED BEFORE ME THIS _____
 DAY OF _____ 19__

HOT FINISHED

NOTARY PUBLIC-HARRIS COUNTY, TEXAS



PIPE SUPPLY COMPANY INC.
2450 WHEATSHEAF LANE, PHILADELPHIA, PA 19137

CUSTOMER PURCHASE ORDER CERTIFICATE OF CONFORMANCE

Description	Applies		Description	Applies	
	Yes	No		Yes	No
Material Manufacturers Certified Material Test Report (CMTR)	X		Report of treatments, examinations or tests not performed		X
Material Manufacturers Supplemental Certifications for Examinations and/or Tests		X	Manufacturers or subcontractors Radiographic Reader's Report		X
Material Manufacturers Subcontractors CMTR		X	Manufacturers or subcontractors Radiographic Film		X
Tioga Pipe Supply Co., Inc. Subcontractors CMTR for NDE		X	Partial Data Reports or other records for weld w/filler metal pipe		X
Tioga Pipe Supply Co., Inc. Subcontractors CMTR for Destructive Testing		X	Tioga Pipe Supply Co., Inc. Certificate of Analyses and Tests		X

Material Ordered: 1" S.W. ROUND HEAD PLUG - 2 PCS

- 1) ASME CODE SECTION II 1983 EDITION SUMMER 1983 ADDENDA FOR ASME SA105 MATERIALS.
- 2) ASME CODE SECTION III 1974 EDITION WINTER 1976 ADDENDA ARTICLES NC-2000 AND NCA-3800 FOR CLASS 2 MATERIALS.
- 3) CP&L SPEC 55 REV. 8.

Traceability:
800VNR

Manufacturer:
WFI NUCLEAR PRODUCTS, INC.

Tioga Pipe Supply Co., Inc. affirms that the contents of their attached reports is correct and accurate and that this material was processed by Tioga Pipe Supply Co., Inc. in compliance with their Quality Systems Program. The material supplied conforms to the purchase order requirements.
Quality System Manual Revision 3 Dated 8-28-91 Category A

REFERENCE INFORMATION

Customer P.O. # 7K4234CJ
Item # 01

Tioga Pipe Supply Co., Inc.
ASME Certificate of Authorization
(Materials) - Number QSC- 467
Expiration Date - Nov. 5, 1994

Tioga S.O. # 807095P
Item # 1

11-23-93

Louise Larruen 11-18-93



NUCLEAR PRODUCTS, INC.

MANUFACTURER OF PIPING & PRESSURE VESSEL COMPONENTS

THIS PRODUCT HAS NOT COME IN DIRECT CONTACT WITH MERCURY OR ANY OF ITS COMPOUNDS, NOR WITH ANY MERCURY CONTAINING DEVICE EMPLOYING A SINGLE BOUNDARY OF CONTAINMENT.

TIOGA PIPE SUPPLY COMPANY INC.

SOLD TO

CUSTOMER'S ORDER NO.

P56357-N

WFI NO.

N0232

DATE

11/08/93

CERTIFIED MATERIAL TEST REPORT

MATERIAL FURNISHED IAW REQUIREMENTS OF ASME SECT. III, DIVISION 1, SUBSECTION NC, CLASS 2, 1974 EDITION THRU W/76 ADD. MATERIAL MANUFACTURED & PROCESSED IAW QUALITY SYSTEM REQUIREMENTS OF ASME SECT. III, SUB ARTICLE NCA3800 & ASME SECTION II, 1983 EDITION THRU S/83 ADD. 10CFR PART 21 & 10CFR 50 APPENDIX 'B' APPLY. NO WELDING PERFORMED

ITEM	QUANTITY	DESCRIPTION	MATERIAL	HEAT CODE
001	2	1" SW ROUND HEAD PLUG PART 737-854-61 CP&L SPEC 55 REV 8 TAG: 7K4234CJ	SA105	800VNR

CHEMICAL COMPOSITION													
LADLE	C	MN	P	S	SI	CU	NI	CR	MO	V	CB	CO	
	.18	.98	.008	.004	.19	.07	.04	.10	.01	.01	.001		
PRODUCT	C	MN	P	S	SI	CU	NI	CR	MO	V	CB	CO	
	.186	.981	.0105	.0061	.208	.0703	.0376	.0946	.0135		.0012	.0065	

MECHANICAL PROPERTIES					
TENSILE PSI	YIELD PSI	ELONG. %	RA %	HARDNESS	
75,800	60,200	40.0	59.0	167 BHN	
				163 BHN	

MATERIAL IS CAPABLE OF WITHSTANDING A HYDRO TEST PRESSURE BASED ON PIPE OF THE SAME SCHEDULE OR WALL THICKNESS

WE CERTIFY THAT THE MATERIAL FURNISHED ON THIS ORDER COMPLIES IN ALL RESPECTS WITH THE SPECIFICATIONS AS STATED AND THAT THIS CORRECT INFORMATION IS AS CONTAINED IN OUR RECORDS.

QSC425 EXPIRATION DATE 1-16-96

Thomas G. Wind
11-13-93

SUBSCRIBED BEFORE ME THIS _____ DAY OF _____ 19__

NOTARY PUBLIC-HARRIS COUNTY, TEXAS

HEAT-TREATMENT
HOT FINISHED

11-23-97

WFI-116 4/01

DUBOSE NATIONAL ENERGY SERVICES, INC.
HWY 24, ROSEBORO, NC 28382
Certificate of Conformance/Compliance

Customer CAROLINA POWER & LIGHT

Date 10/30/92 Serial No. 30822

Our DC No. 91619

THIS MATERIAL MEETS THE REQUIREMENTS
OF YOUR PO NUMBER 7C8294-DK

NEW HILL, NC 27562

ITEM	PIECES	DESCRIPTION SPECIFICATION	GRADE	HEAT NUMBER/ HEAT CODE
2	1	1/2" S/40 X 20' R/L PIPE ASME SA106	GR B	153501 QUANEX
3	43	3/8" HEX PLUGS ASME SA105		048D ✓ CAPITOL
3	33	3/8" HEX PLUGS ASME SA105		065E ✓ CAPITOL

THIS IS TO CERTIFY THAT THIS MATERIAL HAS BEEN SUPPLIED IN ACCORDANCE WITH DUBOSE NATIONAL ENERGY SERVICES, INC. QUALITY SYSTEM PROGRAM REV. 0, DATED 9-30-91 IN COMPLIANCE WITH 10CFR50 APP. B AND THE MATERIAL DESCRIBED MEETS THE SPECIFICATIONS NOTED.

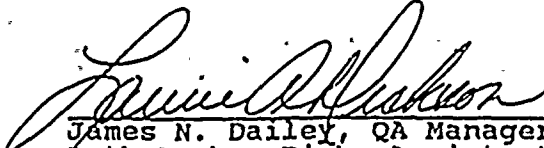
Based upon our review of the manufacturer's CMTR this material supplied in accordance with the 1974 Edition thru Winter 1976 Addenda, Section III NA3700/NCA3800, Subsection NC Class 2.

ASME Section II 1983 Edition Summer 1983 Addenda.

10CFR21

ASME QSC 327 Expires 3-31-93

SPEC. 55, REV. 8


James N. Dailey, QA Manager Date 10/30/92
Ruth Barber-Rich, Assistant QA Manager
Laurie Dickson, Certification Engineer

① 11-5-92

REGISTERED TRADEMARKS

0-△ CAMCO

CERTIFICATE OF ANALYSIS

A DIVISION OF
harsco
CORPORATION

9135

CAPITOL MFG. CO.
1125 CAPITOL ROAD
CROWLEY LA. 70526 TEL: 318-783-8626

DUBOSE STEEL
QA REVIEW
SATISFACTORY
BBB 1-28-92
INITIAL DATE

CUSTOMER CODE	SHIPPING TICKET NO	PAGE NO
11930	18248	2

SOLD TO ADDRESS

SHIP TO

DUBOSE STEEL INC
P.O. BOX 109B
ROSEBORO NC

283820000

DUBOSE STEEL INC
HW 24 WEST
ROSEBORO

NC28382

CAROLINA POWER & LIGHT
PO# 7C8294-DK

SALESMAN	SHIP FROM	DATE	CUSTOMER ORDER NUMBER				TAG NUMBER				
01	04	1/13/92	*28731-63 CHG #4								
11	25		1-1/2	FS 3M THD HALF CPL				/01H			
C	MN	P	S	SI	NI	CR	MO	CU	V	CB	
.260	.800	.012	.024	.260	.170	.180	.060	.200	.010	.010	
TENSILE	89,195	YIELD	54,846	ELONG	25.70	RED AREA	60.70	HARDNESS	BH	181.0	
13	15		2X1	FS 3M SW INSERT				/20H			
C	MN	P	S	SI	NI	CR	MO	CU	V	CB	
.230	.930	.005	.018	.320	.170	.130	.052	.260	.002	.004	
TENSILE	84,900	YIELD	55,000	ELONG	32.00	RED AREA	30.00	HARDNESS	BH	172.0	
13	5		2X1	FS 3M SW INSERT				/15H			
C	MN	P	S	SI	NI	CR	MO	CU	V	CB	
.210	.980	.007	.022	.280	.190	.090	.050	.300	.003	.005	
TENSILE	80,700	YIELD	52,300	ELONG	34.00	RED AREA	30.00	HARDNESS	BH	159.0	
3	1	43	3/8	FS HEX HD PLUG				/48D			
C	MN	P	S	SI	NI	CR	MO	CU	V	CB	
.210	1.040	.015	.037	.210	.120	.120	.029	.290	.022	.000	
TENSILE	87,300	YIELD	59,000	ELONG	38.80	RED AREA	47.50	HARDNESS	BH	180.0	
3	1	57	3/8	FS HEX HD PLUG				/65E			
C	MN	P	S	SI	NI	CR	MO	CU	V	CB	
.240	1.120	.014	.022	.310	.120	.150	.027	.290	.003	.006	
TENSILE	87,500	YIELD	56,300	ELONG	27.00	RED AREA	32.00	HARDNESS	BH	178.0	

QUALITY REQUIREMENTS

10CFR21 & 10CFR50 APPN.B APPLIES. MATERIAL WAS MANUFACTURED IN ACCORDANCE WITH OUR QSP REV 1 DATED 6/27/88 WHICH WAS AUDITED BY DUBOSE ON 3/20/91 AND APPROVED BY DUBOSE ON 9/18/91 CONFORMING TO THE REQUIREMENTS OF ASME SECTION III SUBSECTION NCA 3800. ASME SA105 SECTION III CLASS 2 1989 EDITION NO ADDENDA.

Material capable of passing a hydrostatic test compatible with the rating of the finished forging. Material was not exposed to mercury or other alloy that is liquid at ambient temperature during processing or while in our possession. No weld repair was performed.

We do hereby certify that the reported values on this certificate of analysis have been established in accordance with material specification and that the material has been supplied in accordance with the customer purchase order.

BY *Gene Williams*
NAME GENE WILLIAMS
TITLE C.N.F. SUPERVISOR
DATE 1/13/92

② 1/15/92



FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 07/08/94
Name
P.O. Box 1551, Raleigh, N. C. 27602-1551 Sheet 1 of 1
Address
2. Plant Shearon Harris Nuclear Power Plant Unit 1
Name
P.O. Box 165, New Hill, N. C. 27562-0165 90-ATOM1 and PCR-5206
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power and Light Co. Type Code Symbol Stamp N/A
Name
New Hill, N.C. Authorization No. N/A
Address Expiration Date N/A
4. Identification of System Chemical and Volume Control System (2060)
5. (a) Applicable Construction Code ASME SECT. III 1974 Edition, W 1976 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Check Valve	Rockwell International	BE376	656	1CS-193 2CS-V138SN-1	1981	Replaced	Yes
Check Valve	Anchor/Darling Valve Co.	EB854-2-2	1374	1CS-193 2CS-V138SN-1	1991	Replacement	Yes

7. Description of Work Replaced 2" check valve with one without a seal welded bonnet to enhance maintainability and ALARA benefits.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks See attached manufacturer's data reports. Pressure testing performed per Code Case N-368 and work request 90-ATQK5.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the
ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp None

Certificate of Authorization No. N/A

Expiration Date N/A

Signed [Signature]

Date 7/26, 19 94

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the
State or Province of North Carolina and employed by The Hartford Steam Boiler Inspection and Insurance Company of
One State Street, Hartford, Connecticut 06102 have inspected the components described
in this Owner's Report during the period 12/02/92 to 05/12/94, and state that
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

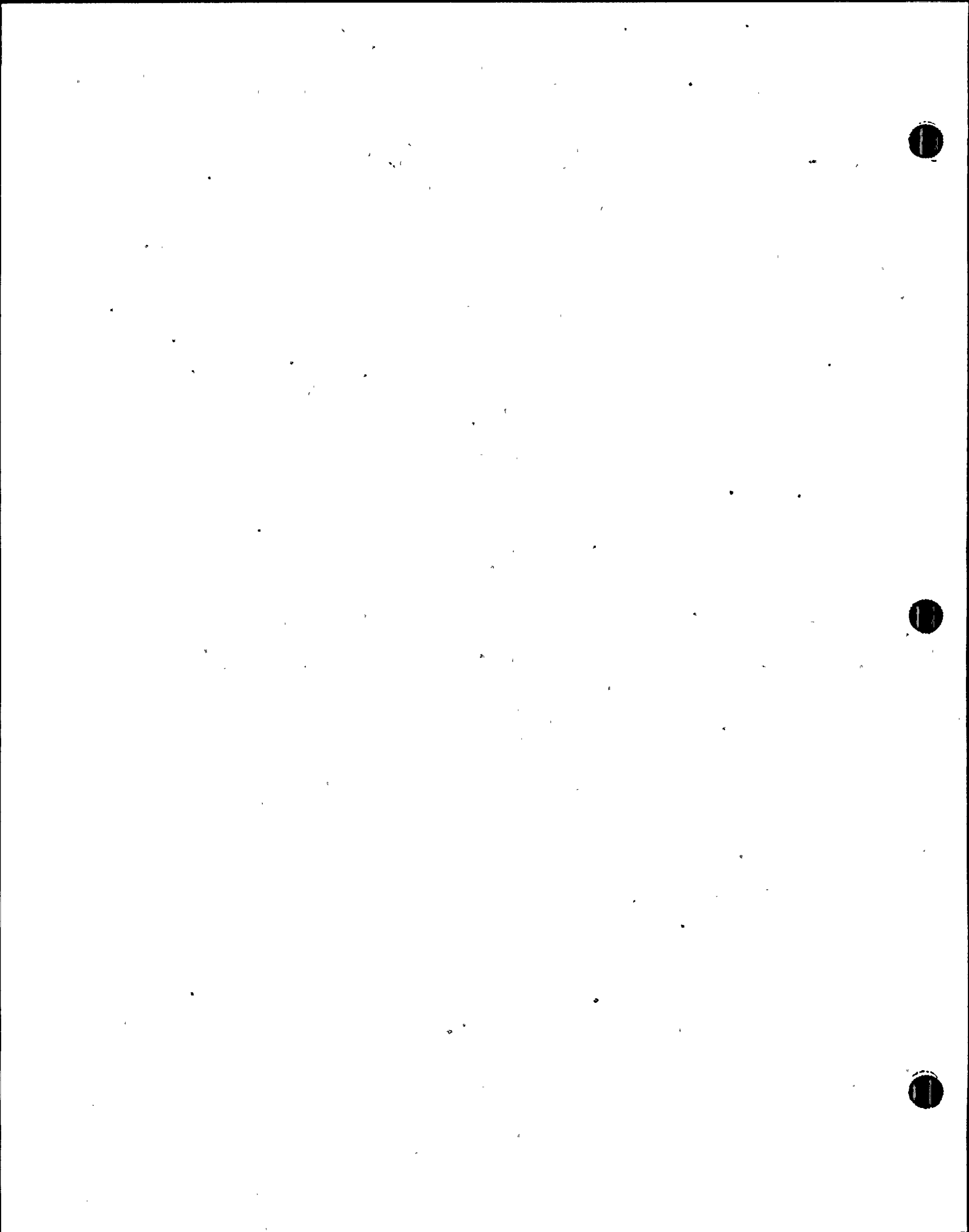
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
this inspection.

[Signature]
Inspector's Signature

Commissions NC 1042

National Board, State, Province, and Endorsements

Date July 27 19 94



FORM NPV-1 (back)

8. Remarks 2"-1878#-Globe Piston Check Valve

Ref. A/DV S.O. EB854-2

9. Design conditions 3104 psi 450 °F or valve pressure class 1878 (1)
(pressure) (temperature)

10. Cold working pressure 4507 psi at 100°F

11. Hydrostatic test 6975 psi. Disk differential test pressure 4958 psi

912573447

CERTIFICATION OF DESIGN

Design Specification certified by R. A. Stewart P.E. State NC Reg. no. 8677
Design Report certified by T. C. Bartlett P.E. State PA Reg. no. PE-039036-E

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N1712 Expires 4/15/92

Date 8/26/91 Name Anchor/Darling Valve Company Signed R. L. Starnett
(N Certificate Holder) (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~XXXXXX~~ of Pennsylvania and employed by Commercial Union Ins. Co. of Boston, Mass. have inspected the pump, or valve, described in this Data Report on 4-296-8-27, 19 91, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 8-22-91 Signed Charles Young Commissions 1B9544 N
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)
Pennsylvania 2392

(1) For manually operated valves only.

189.9.91

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*
 (As Required by the Provisions of the ASME Code, Section III, Div. 1)

1. Manufactured by Rockwell International, P.O. Box 501, Sulphur Springs, TX 75482
(Name and Address of Manufacturer)
2. Manufactured for Ebasco Services Inc., Two Rector St., New York, NY 10006
(Name and Address of Purchaser or Owner)
3. Location of Installation: Shearon Harris Nuclear Power Plant, Wake County, NC
(Name and Address)
4. Pump or Valve Valve - Check . Nominal Inlet Size 2" . Outlet Size 2"
(Inch) (Inch)

	(a) Model No., Series No. or Type	(b) Manufacturers' Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Std. No.	(g) Year Built
(1)	D3674F316T2	BE372	NA	D31605327-4	2	652	1981
(2)		BE373				653	
(3)		BE374				654	
(4)		BE375				655	
(5)		BE376				656	
(6)		BE377				657	
(7)		BE378				658	
(8)		BE379				659	
(9)		BE380				660	
(10)	D3674F316T2	BE381	NA	D31605327-4	2	661	1981

5. Rockwell International Assembly Lot No. H4397 Qty. 10
(Brief description of service for which equipment was designed)

6. Design Conditions 2240 psi 800 °F or Valve Pressure Class 1500 (1)
(Pressure) (Temperature)
7. Cold Working Pressure 3600 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Disks F2558#1	A567GR1	Consolidated	Heat O
Disks F5625#1	A567GR1	Consolidated	Heat BB
Disks F5605#1	A567GR1	Consolidated	Heat CC
Disks K9273#1	A567GR1	Consolidated	Heat W
(b) Forgings			
Bodies SK359N HT#2	SA182GRF316	Texas Forge	Republic Heat 8651885
Bodies SK285N HT#2	SA182GRF316	Texas Forge	Joslyn Heat 78889

(1) For manually operated valves only.

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

(3/77)

This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

0572654184

Mark No.	Material Spec. No.	Manufact.	Remarks
(c) Boiling			
NA			
(d) Other Parts			
Covers F3833, F4236	SA479T316	Crucible	Heat A18246
Covers F3378	SA479T316	Crucible	Heat A18422
Sealweld Filler	SFA5.9ER316	Teledyne McKay	Heat 30896

9. Hydrostatic test 5400 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. I, Edition 1971, Addenda Summer, 1973, Code Case No. N-154 (1791), Date 12/21/81
 Signed Rockwell International by William J. Vance
(Date) (Manufacturer)
 Our ASME Certificate of Authorization No. N-1814 to use the (N) symbol expires 8/12/83
(N) (NFV) (Date)

CERTIFICATION OF DESIGN

Design information on file at Rockwell International, Sulphur Springs, Texas
 Stress analysis report (Class 1 only) on file at _____
 Design specifications certified by (1) A. J. Rossi
 PE State NC Reg. No. 4294
 Stress analysis certified by (1) David H. Therneau
 PE State TX Reg. No. 30681
 (1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Texas and employed by Lumbermens Mutual Casualty of Long Grove, IL 60049 have inspected the pump, or valve, described in this Data Report on 12-21 19 81, and state that to the best of my knowledge and belief, the Manufacturer has constructed this pump, or valve, in accordance with the ASME Code, Section III.
 By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date 12-21 19 81
[Signature] Commissions Texas 826 NATL B. 7717
(Inspector) (Nat'l Bd., State, Prov. and No.)

00726504185

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 07/08/94
Name
P.O. Box 1551, Raleigh, N. C. 27602-1551 Sheet 1 of 1
Address
2. Plant Shearon Harris Nuclear Power Plant Unit 1
Name
P.O. Box 165, New Hill, N. C. 27562-0165 90-ATQK1 and PCR-5206
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power and Light Co. Type Code Symbol Stamp N/A
Name
New Hill, N.C. Authorization No. N/A
Address Expiration Date N/A
4. Identification of System Chemical and Volume Control System (2060)
5. (a) Applicable Construction Code ASME SECT. III 1974 Edition, W 1976 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983
6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Check Valve	Rockwell International	BE374	654	1CS-179 2CS-V136SN-1	1981	Replaced	Yes
Check Valve	Anchor/Darling Valve Co.	EB854-2-4	1376	1CS-179 2CS-V136SN-1	1991	Replacement	Yes

7. Description of Work Replaced 2" check valve with one without a seal welded bonnet to enhance maintainability and ALARA benefits.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks See attached manufacturer's data reports. Pressure testing performed per Code Case N-368 and work request 90-ATQK5.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp None

Certificate of Authorization No. N/A

Expiration Date N/A

Signed [Signature]

Date 7/26

19 94

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by The Hartford Steam Boiler Inspection and Insurance Company of One State Street, Hartford, Connecticut 06102 have inspected the components described in this Owner's Report during the period 12/02/92 to 05/12/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]

Inspector's Signature

Commissions NC 1042

National Board, State, Province, and Endorsements

Date July 27

19 94

FORM NPV-1 (back)

8. Remarks 2"-1878#-Globe Piston Check Valve
Ref. A/DV S.O. EB854-2

9. Design conditions 3104 psi 450 °F or valve pressure class 1878 (1)
(pressure) (temperature)

10. Cold working pressure 4507 psi at 100°F

11. Hydrostatic test 6975 psi. Disk differential test pressure 4958 psi

91257347

CERTIFICATION OF DESIGN

Design Specification certified by R. A. Stewart P.E. State NC Reg. no. 8677
Design Report certified by T. C. Bartlett P.E. State PA Reg. no. PE-039036-E

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N1712 Expires 4/15/92

Date 8/26/91 Name Anchor/Darling Valve Company Signed R.L. Starnett
(N Certificate Holder) (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Pennsylvania and employed by Commercial Union Ins. Co. of Boston, Mass. have inspected the pump, or valve, described in this Data Report on 4-296-28-27, 19 91, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 8-20-91 Signed Charles Young Commissions 189544 N
Charles Young (National Board Inspector) Pennsylvania 2392
(Nat'l. Bd. (incl. endorsements) state or prov. and no.)

(1) For manually operated valves only.

1899.9.91

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES:

(As Required by the Provisions of the ASME Code, Section III, Div. 1)

1. Manufactured by Rockwell International, P.O. Box 501, Sulphur Springs, TX 75482
(Name and Address of Manufacturer)
2. Manufactured for Ebasco Services Inc., Two Rector St., New York, NY 10006
(Name and Address of Purchaser or Owner)
3. Location of Installation Shearon Harris Nuclear Power Plant, Wake County, NC
(Name and Address)
4. Pump or Valve Valve - Check . Nominal Inlet Size 2" . Outlet Size 2"
(Inch) (Inch)

	(a) Model No., Series No. or Type	(b) Manufacturers' Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Std. No.	(g) Year Built
(1)	D3674F316T2	BE372	NA	D31605327-4	2	652	1981
(2)		BE373				653	
(3)		BE374				654	
(4)		BE375				655	
(5)		BE376				656	
(6)		BE377				657	
(7)		BE378				658	
(8)		BE379				659	
(9)		BE380				660	
(10)	D3674F316T2	BE381	NA	D31605327-4	2	661	1981

5. Rockwell International Assembly Lot No. H4397 Qty. 10
(Brief description of service for which equipment was designed)

6. Design Conditions 2240 psi 800 °F or Valve Pressure Class 1500 (1)
(Pressure) (Temperature)
7. Cold Working Pressure 3600 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Disks F2558#1	A567GR1	Consolidated	Heat O
Disks F5625#1	A567GR1	Consolidated	Heat BB
Disks F5605#1	A567GR1	Consolidated	Heat CC
Disks K9273#1	A567GR1	Consolidated	Heat W
(b) Forgings			
Bodies SK359N HT#2	SA182GRF316	Texas Forge	Republic Heat 8651885
Bodies SK285N HT#2	SA182GRF316	Texas Forge	Joslyn Heat 78889

(1) For manually operated valves only.

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

1184
387265



Mark No.	Material Spec. No.	Manufact.	Remarks
(c) Boiling			
NA			
(d) Other Parts			
Covers F3833, F4236	SA479T316	Crucible	Heat A18246
Covers F3378	SA479T316	Crucible	Heat A18422
Sealweld Filler	SFA5.9ER316	Teledyne McKay	Heat 30896

9. Hydrostatic test 5400 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. I, Edition 1971, Addenda Summer, 1973, Code Case No. N-154 (1791), Date 12/21/81.
 Signed Rockwell International by William J. Vance
 (Manufacturer)
 Our ASME Certificate of Authorization No. N-1814 to use the (N) symbol expires 8/12/83.
 (N) (NFV) (Date)

CERTIFICATION OF DESIGN

Design information on file at Rockwell International, Sulphur Springs, Texas
 Stress analysis report (Class 1 only) on file at _____
 Design specifications certified by (1) A. J. Rossi
 PE State NC Reg. No. 4294
 Stress analysis certified by (1) David H. Therneau
 PE State TX Reg. No. 30681
 (1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Texas and employed by Lumbermens Mutual Casualty of Long Grove, IL 60049 have inspected the pump, or valve, described in this Data Report on 12-21-1981, and state that to the best of my knowledge and belief, the Manufacturer has constructed this pump, or valve, in accordance with the ASME Code, Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 12-21-1981
[Signature] (Inspector) Commissions Texas 826 NATL 5.7717
 (Nat'l Bd., State, Prov. and No.)

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FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 07/27/94
Name
P.O. Box 1551, Raleigh, N. C. 27602-1551 Address Sheet 1 of 1
2. Plant Shearon Harris Nuclear Power Plant Unit 1
Name
P.O. Box 165, New Hill, N. C. 27562-0165 Address WR&A 94-AFYW3
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power and Light Co. Type Code Symbol Stamp N/A
Name
New Hill, N.C. Address Authorization No. N/A
Expiration Date N/A
4. Identification of System Steam Generator (3005)
5. (a) Applicable Construction Code ASME SECT. III 19 74 Edition, W 1976 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
S/G Secondary Manway Cover	Westinghouse	404254	N/A	1SG-E001, A-1 Sec. Manway Cover	1976	Replaced	No
S/G Secondary Manway Cover	Westinghouse	704943-1	N/A	1SG-E001, A-1 Sec. Manway Cover	1976	Replacement	No
Hex Cap Screw 1½-8X5"	Supplied via Westinghouse	N/A	N/A	Part# 723-482-04 PO# 162065	1976	Replacement	No

7. Description of Work Replaced leaking A-1 manway with spare from abandoned Harris U-2 Steam Generator and replaced 3 cap screws.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks See attached the Manufacturer's Data Reports for the associated S/G, 1SG-E001. Data reports for the replaced and
Applicable Manufacturer's Data Reports to be attached
replacement manways or certificates of compliance for the cap screws have not been located. The evidence indicates the cap screws
were purchased under a Westinghouse PO for the abandoned SHNPP U-2. Pressure testing of the new manways was performed at the same
time as an RCS hydro was performed on 5/9/94 using procedures EST-201 and EPT-159.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the
ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp None

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] Date 7/29, 19 94
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the
State or Province of North Carolina and employed by The Hartford Steam Boiler Inspection and Insurance Company of
One State Street, Hartford, Connecticut 06102 have inspected the components described
in this Owner's Report during the period 12/02/92 to 05/12/94, and state that
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
this inspection.

[Signature] Commissions NC 1042
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug 1 19 94

FORM N-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR VESSELS

As required by the Provisions of the ASME Code Rules

PRELIMINARY

1. Manufactured by Westinghouse Electric Corporation, Tampa Division, Tampa, Florida
(Name and address of Manufacturer)

2. Manufactured for Carolina Light & Power - Shearon Harris No. 1, N. C., Bonsal
(Name and address of Purchaser)

3. Type Vertical Kind Steam Gen Vessel No. (1631) () Nat'l Bd. No. W11304 Yr. Built 1976
(Horiz. or Vert.) (Tank, Jacketed, Heat Ex.) (Mfrs. Serial No.) (State & State No.) NB4642

3a. Applicable ASME Code: Section III, Edition 1971, Addenda date S72, Case No. NB4643
Class 1 1484
1493-1

Items 4-8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers. 1355

4. Shell: Material SA-533 GR A CL2 T.S. 90000 Nominal Thickness * in. Corrosion Allowance 06 in. Dia. * ft. * in. Length * ft. * in.
(Kind & Spec. No.) (Min. of range specified)

5. Seams: Long Weld-Dbl-Butt H.T. Yes R.T. Complete Efficiency 100 %

Girth Weld-Dbl-Butt H.T. Yes R.T. Complete No. of Courses *

6. Heads (a) Material SA-533 GR A CL2 T.S. 90000 (b) Material - T.S. -

Location (Top, bottom, ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (Convex or Concave)
(a) Top	3.82			2:1				concave
(b)								

If removable, bolts used (Material, Spec. No., T.S., Size, Number) Other fastening (Describe or attach sketch)

7. Assy Closure *Girth Weld-Dbl-Butt; H.T.; X.R. complete
Girth Weld (Describe as ogee & weld, bar, etc. if bar give dimensions, describe or sketch)

Meets Fracture Toughness RT NDT = 60°F max. Hydrostatic or Test Pressure 1482 psi
8. Design Pressure 1185 psi at 600 °F

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary. Material SA-508 CL2 Dia. 125.75 in. Thickness 21.03 in. Attachment See Item 12
(Kind & Spec. No.) (Subject to press.) (Welded, Bolted)

Floating. Material (Kind & Spec. No.) Dia. in. Thickness in. Attachment

10. Tubes: Material SB-163 O.D. 750 in. Thickness 043 inches or gage Number 4575 Type U
(Kind & Spec. No.) 3 plugged (Straight or U)

Items 11 to 14 incl. to be completed for Primary Chamber

11. Shell: Material T.S. Nominal Thickness in. Corrosion Allowance in. Dia. ft. in. Length ft. in.
(Kind & Spec. No.) (Min. of range specified)

12. Seams: Long H.T. R.T. Efficiency %
(Welded, Dbl., Single) (Yes or No)

Girth Weld-Dbl-Butt H.T. Yes R.T. complete No. of Courses 2*
SA-533

13. Heads: (a) Material T.S. (b) Material GR B CL1 T.S. 90000 (c) Material T.S.

Location	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (Convex or Concave)
(a) Top, bottom, ends								
(b) Channel	5.10 min					62.81		concave
(c) Floating								

If removable, bolts used (a) (b) (c) Other fastening (Describe or attach sketch)

Meets Fracture Toughness RT NDT = 60°F max. Hydrostatic or Test Pressure 3106 psi
14. Design pressure 2485 psi at 650 °F

* If Postweld Heat-Treated
* List other internal or external pressures with coincident temperature when applicable.

*See Dwg. 1100J51

0 8 7 6 4 0 1 2 3

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number _____ Size _____ Location _____

16. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
Prim. Inlet	1	31" I.D.	(Weld)	SA-508 CL2	3.00"	Steel	Welded
Prim. Outlet	1	31" I.D.	(End)	SA-508 CL2	3.00"	Steel	Welded
Steam Outlet	1	29" I.D.	(Weld)	(SA-508)	1.20"	Steel	Welded
Feedwater	1	14" I.D.	(End)	(CL.2)	0.76"	Steel	Welded

17. Inspection Manholes, No. 4 Size 16" Location (2) Chamber & (2) Upper Shell

Openings: Handholes, No. _____ Size _____ Location _____

Instrumentation No. 4 Size 2" Location Stub Barrel Portion of Lower Shell

AVT

18. Supports: Skirt No Lugs _____ Legs _____ Other X Attached See Below

Main support is integral part of tube plate.

19. Remarks: This N-1 Form is to be signed off by the authorized code inspector under

certificate of shop inspection for everything listed except the hydrostatic test

and subsequent inspection. Field inspector must sign off for the latter items on

Manufacturers' Partial Data Forms N-2 filed at Westinghouse.

(Brief description of service for which vessel was designed)

CERTIFICATION OF DESIGN

Design information on file at Westinghouse Electric Corporation, Tampa Division, Tampa, FL

**Stress analysis report file at _____ A. Wuttlauffer

Design specifications certified by Nuclear Energy Systems Prof. Eng. State _____ Reg. No. 13335-E

**Stress analysis report certified by _____ Prof. Eng. State _____ Reg. No. _____

We certify that the statements made in this report are correct and that this nuclear vessel conforms to the rules of construction of the ASME Code, Section III.

Date June 10, 1976 Signed _____ Westinghouse Elec. Corp. By R.P. Walter

(Manufacturer)

Certificate of authorization Expires June 16, 1978 Certificate of Authorization No. N-1154

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY Westinghouse Electric Corporation at Tampa, FL

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Pennsylvania and employed by Lumbermans Mutual Cas. Co. ofburg Grove, Illinois

have inspected the pressure vessel described in this Manufacturer's Data Report on June 11 1976, and state that to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with the ASME Code, Section III.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date June 11 1976

[Signature]
Inspector's Signature

Commissions National Board 2572-Penn 142231
National Board, State, Province and No.

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____ of _____

have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief the manufacturer has constructed and assembled this pressure vessel in accordance with the ASME Code, Section III. The described vessel was inspected and subjected to a hydrostatic test and/or Pneumatic Test of _____ psig Primary Side & _____ psig Secondary Side.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date _____ 19 _____

Inspector's Signature

Commissions _____
National Board, State, Province and No.

**Stress Report will be on file before time of Field Hydro.

087643 0127

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 07/28/94
Name
- P.O. Box 1551, Raleigh, N. C. 27602-1551 Sheet 1 of 1
Address
2. Plant Shearon Harris Nuclear Power Plant Unit 1
Name
- P.O. Box 165, New Hill, N. C. 27562-0165 WR&A 94-AFYX2
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power and Light Co. Type Code Symbol Stamp N/A
Name
- New Hill, N.C. Authorization No. N/A
Address Expiration Date N/A
4. Identification of System Steam Generator (3005)
5. (a) Applicable Construction Code ASME SECT. III 19 74 Edition, W 1976 Addenda, _____ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983
6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
S/G Secondary Manway Cover	Westinghouse	N/A	N/A	1SG-E002, B-2 Sec. Manway Cover	1976	Replaced	No
S/G Secondary Manway Cover	Westinghouse	704924-2	N/A	1SG-E002, B-2 Sec. Manway Cover	1976	Replacement	No

7. Description of Work Replaced leaking B-2 manway with spare from abandoned Harris U-2 Steam Generator.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks See attached the Manufacturer's Data Reports for the associated S/G, 1SG-E002. Data reports for the replaced and
Applicable Manufacturer's Data Reports to be attached
replacement manways have not been located. Pressure testing of the new manways was performed at the same time as an RCS hydro
was performed on 5/9/94 using procedures EST-201 and EPT-159.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the
ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp None

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] Mgr ET Date 7/29, 19 94
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the
State or Province of North Carolina and employed by The Hartford Steam Boiler Inspection and Insurance Company of
One State Street, Hartford, Connecticut 06102 have inspected the components described
in this Owner's Report during the period 12/02/92 to 05/12/94, and state that
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
this inspection.

[Signature] Commissions NC 1042
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug 1, 19 94

FORM N-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR VESSELS
As required by the Provisions of the ASME Code Rules

PRELIMINARY

1. Manufactured by Westinghouse Electric Corporation, Tampa Division, Tampa, Florida
(Name and address of Manufacturer)
2. Manufactured for Carolina Light & Power - Shearon Harris No. 1, N. C., Bonsal
(Name and address of Purchaser)
3. Type Vertical Kind Steam Gen Vessel No. (1632) (_____) Nat'l Bd. No. W 11309 r. Built 1976
(Horiz. or Vert.) (Tank, Jacketed, Heat Ex.) (Mfr. Serial No.) (State & State No.) Para NB4642
- 3a. Applicable ASME Code: Section III, Edition 1971, Addenda date S72, Case No. 1484
Class 1 1493-1
1355

Items 4-8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material GR A CL2 T.S. 90000 Nominal Thickness 0.06 in. Corrosion Allowance 0.06 in. Dia. 0 ft. 0 in. Length 0 ft. 0 in.
(Kind & Spec. No.) (Min. of range specified)
5. Seams: Long Weld-Dbl-Butt H.T. Yes R.T. Complete Efficiency 100 %
Girth Weld-Dbl-Butt H.T. Yes R.T. Complete No. of Courses *
SA-533
6. Heads (a) Material GR A CL2 T.S. 90000 (b) Material - T.S. -
- | Location (Top, bottom, ends) | Thickness | Crown Radius | Knuckle Radius | Elliptical Ratio | Conical Apex Angle | Hemispherical Radius | Flat Diameter | Side to Press. (Convex or Concave) |
|------------------------------|-------------|--------------|----------------|------------------|--------------------|----------------------|---------------|------------------------------------|
| (a) <u>Top</u> | <u>3.82</u> | | | <u>2:1</u> | | | | <u>concave</u> |
| (b) | | | | | | | | |
- If removable, bolts used _____ (Material, Spec. No., T.S., Size, Number) Other fastening _____ (Describe or attach sketch)
7. Assy Closure *Girth Weld-Dbl-Butt; H.T.; X.R. complete
Girth Weld (Describe as ogee & weld, bar, etc. If bar give dimensions, describe or sketch)
Meets Fracture Toughness RT_{NDT} = 60°F max. Hydrostatic test } Test Pressure 1482 psi
8. Design Pressure 1185 psi at 600 °F. ~~Combustion~~ } Test Pressure 1482 psi

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary. Material SA-508 CL2 Dia. 125.75 in. Thickness 21.03 in. Attachment See Item 12
(Kind & Spec. No.) (Subject to press.) (Welded, Bolted)
- Floating. Material _____ Dia. _____ in. Thickness _____ in. Attachment _____
10. Tubes: Material SB-163 O.D. .750 in. Thickness .043 inches or gage Number 4576 Type U
(Kind & Spec. No.) 2 tubes plugged (Straight or U)

Items 11 to 14 incl. to be completed for Primary Chamber

11. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of range specified)
12. Seams: Long _____ H.T. Yes R.T. _____ Efficiency _____ %
(Welded, Dbl., Single) (Yes or No)
- Girth Weld-Dbl-Butt H.T. Yes R.T. complete No. of Courses 2*
SA-533
13. Heads: (a) Material _____ T.S. _____ (b) Material GR BCL1 T.S. 90000 (c) Material _____ T.S. _____
- | Location | Thickness | Crown Radius | Knuckle Radius | Elliptical Ratio | Conical Apex Angle | Hemispherical Radius | Flat Diameter | Side to Press. (Convex or Concave) |
|-----------------------|-----------------|--------------|----------------|------------------|--------------------|----------------------|---------------|------------------------------------|
| (a) Top, bottom, ends | | | | | | | | |
| (b) Channel | <u>5.10 min</u> | | | | | <u>62.81</u> | | <u>concave</u> |
| (c) Floating | | | | | | | | |
- If removable, bolts used (a) _____ (b) _____ (c) _____ Other fastening _____ (Describe or attach sketch)
- Meets Fracture Toughness RT_{NDT} = 60°F max. Hydrostatic test } Test Pressure 3106 psi
14. Design pressure 2485 psi at 650 °F. ~~Combustion~~ } Test Pressure 3106 psi

¹ If Postweld Heat-Treated
² List other internal or external pressures with coincident temperature when applicable.

*See Dwg. 1100J51

0 8 7 6 4 3 0 1 3 3

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number _____ Size _____ Location _____

16. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
Prim. Inlet	1	31" I.D.	(Weld)	SA-508 CL2	3.00"	Steel	Welded
Prim. Outlet	1	31" I.D.	(End)	SA-508 CL2	3.00"	Steel	Welded
Steam Outlet	1	29" I.D.	(Weld)	(SA-508)	1.20"	Steel	Welded
Feedwater	1	14" I.D.	(End)	(CL.2)	0.76"	Steel	Welded

17. Inspection Manholes, No. 4 Size 16" Location (2) Chamber & (2) Upper Shell

Openings: Handholes, No. _____ Size _____ Location _____

No. 4 Size 2" Location Stub Barrel Portion of Lower Shell

18. Supports: Skirt No Lugs _____ Legs _____ Other X Attached See Below

Main support ^(X of No) is integral ^(Number) part of tube ^(Number) plate. (Describe) (Where & How)

19. Remarks: This N-1 Form is to be signed off by the authorized code inspector under certificate of shop inspection for everything listed except the hydrostatic test and subsequent inspection. Field inspector must sign off for the latter items on Manufacturer's Partial Data Forms N-2 filed at Westinghouse.

(Brief description of service for which vessel was designed)

CERTIFICATION OF DESIGN

Design information on file at Westinghouse Electric Corporation, Tampa Division, Tampa, FL

** Stress analysis report on file at _____

Design specifications certified by Nuclear Energy Systems Prof. Eng. State A. Wettlauffer Reg. No. 13335-E

** Stress analysis report certified by _____ Prof. Eng. State _____ Reg. No. _____

We certify that the statements made in this report are correct and that this nuclear vessel conforms to the rules of construction of the ASME Code, Section III.

Date Oct 14, 1976 Signed _____ By R.P. Walker
(Manufacturer)

Certificate of authorization Expires June 16, 1978 Certificate of Authority No. N-1154

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY Westinghouse Electric Corporation at Tampa, FL

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Pennsylvania and employed by Lumbermans Mutual Cas. Co. of Long Grove, Illinois

have inspected the pressure vessel described in this Manufacturer's Data Report on November 8 1976, and state that to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with the ASME Code, Section III.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date November 8 1976

[Signature]
Inspector's Signature

Commissions National Board 2592-Penna. WC 2231
National Board, State, Province and No.

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____ of _____

have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief the manufacturer has constructed and assembled this pressure vessel in accordance with the ASME Code, Section III. The described vessel was inspected and subjected to a hydrostatic test and/or Pneumatic Test of _____ psig Primary Side & _____ psig Secondary Side.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date _____ 19 _____

Inspector's Signature

Commissions _____
National Board, State, Province and No.

**Stress Report will be on file before time of Field Hydro.

④

0 8 7 6 4 3 0 1 3 9

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 07/28/94
Name
- P.O. Box 1551, Raleigh, N. C. 27602-1551 Sheet 1 of 1
Address
2. Plant Shearon Harris Nuclear Power Plant Unit 1
Name
- P.O. Box 165, New Hill, N. C. 27562-0165 WR&A 94-AFXD4
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power and Light Co. Type Code Symbol Stamp N/A
Name
- New Hill, N.C. Authorization No. N/A
Address Expiration Date N/A
4. Identification of System Steam Generator (3005)
5. (a) Applicable Construction Code ASME SECT. III 1974 Edition, W 1976 Addenda, _____ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983
6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
S/G Secondary Manway Cover	Westinghouse	TO 4319	N/A	1SG-E003, C-1 Sec. Manway Cover	1976	Replaced	No
S/G Secondary Manway Cover	Westinghouse	N/A	N/A	1SG-E003, C-1 Sec. Manway Cover	1976	Replacement	No
Hex Cap Screw 1 1/2"-8X5"	Supplied via Westinghouse	N/A	N/A	Part# 723-482-04 PO# 162065	1976	Replacement	No

7. Description of Work Replaced leaking C-1 manway with spare from abandoned Harris U-2 Steam Generator and replaced 3 cap screws.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks See attached the Manufacturer's Data Reports for the associated S/G, 1SG-E003. Data reports for the replaced and replacement manways or certificates of compliance for the cap screw have not been located. The evidence indicates the cap screw was purchased under a Westinghouse PO for the abandoned SHNPP U-2. Pressure testing of the new manway was performed at the same time as an RCS hydro was performed on 5/9/94 using procedures EST-201 and EPT-159.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp None

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] Date 7/29, 19 94
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by The Hartford Steam Boiler Inspection and Insurance Company of One State Street, Hartford, Connecticut 06102 have inspected the components described in this Owner's Report during the period 12/02/92 to 05/12/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions NC 1042
 Inspector's Signature National Board, State, Province, and Endorsements

Date Aug 1 19 94

FORM N-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR VESSELS

As required by the Provisions of the ASME Code Rules

PRELIMINARY

1. Manufactured by Westinghouse Electric Corporation, Tampa Division, Tampa, Florida
(Name and address of Manufacturer)
2. Manufactured for Carolina Light & Power - Shearon Harris No. 1, N. C., Bonsal
(Name and address of Purchaser)
3. Type Vertical Kind Steam Gen Vessel No. (1633) () () Nat'l Bld. No. W11307 Yr. Built 1976
(Horiz. or Vert.) (Tank, Jacketed, Heat Ex.) (Mfrs. Serial No.) (State & State No.) Para NB4643
- 3a. Applicable ASME Code: Section III, Edition 1971, Addenda date S72, Case No. 1484
Class 1 1493-1
1355

Items 4-8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material SA-533 GR A CL2 T.S. 90000 Nominal Thickness 0.6 in. Corrosion Allowance 0.06 in. Dia. 0 ft. 0 in. Length 0 ft. 0 in.
(Kind & Spec. No.) (Min. of range specified)
5. Seams: Long Weld-Dbl-Butt H.T. Yes R.T. Complete Efficiency 100 %
Girth Weld-Dbl-Butt H.T. Yes R.T. Complete No. of Courses *
6. Heads (a) Material SA-533 GR A CL2 T.S. 90000 (b) Material - T.S. -
- | Location (Top, bottom, ends) | Thickness | Crown Radius | Knuckle Radius | Elliptical Ratio | Conical Apex Angle | Hemispherical Radius | Flat Diameter | Side to Press. (Convex or Concave) |
|------------------------------|-----------|--------------|----------------|------------------|--------------------|----------------------|---------------|------------------------------------|
| (a) Top | 3.82 | | | 2:1 | | | | concave |
| (b) | | | | | | | | |
- If removable, bolts used _____ Other fastening _____
(Material, Spec. No., T.S., Size, Number) (Describe or attach sketch)

7. Assy Closure *Girth Weld-Dbl-Butt; H.T.; X.R. complete
Girth Weld Meets Fracture Toughness RT NDT = 60°F max.
(Describe as open & weld, bar, etc. If bar give dimensions, describe or sketch)
8. Design Pressure 1185 psi at 600 °F
Hydrostatic or Test Pressure 1482 psi

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary. Material SA-508 CL2 Dia. 125.75 in. Thickness 21.0 in. Attachment See Item 12
(Kind & Spec. No.) (Subject to press.) (Welded, Bolted)
- Floating. Material _____ Dia. _____ in. Thickness _____ in. Attachment _____
(Kind & Spec. No.)
10. Tubes: Material SB-163 O.D. 750 in. Thickness .043 inches or gage Number 4575 Type U
(Kind & Spec. No.) Three Plugged (Straight or U)

Items 11 to 14 incl. to be completed for Primary Chamber

11. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of range specified)
12. Seams: Long _____ H.T. Yes R.T. _____ Efficiency _____ %
(Welded, Dbl., Single) (Yes or No)
- Girth Weld-Dbl-Butt H.T. Yes R.T. complete No. of Courses 2*
13. Heads: (a) Material SA-533 T.S. - (b) Material GR A CL2 T.S. 90000 (c) Material - T.S. -
- | Location | Thickness | Crown Radius | Knuckle Radius | Elliptical Ratio | Conical Apex Angle | Hemispherical Radius | Flat Diameter | Side to Press. (Convex or Concave) |
|-----------------------|-----------|--------------|----------------|------------------|--------------------|----------------------|---------------|------------------------------------|
| (a) Top, bottom, ends | | | | | | | | |
| (b) Channel | 5.10 min | | | | | 62.81 | | concave |
| (c) Floating | | | | | | | | |
- If removable, bolts used (a) _____ (b) _____ (c) _____ Other fastening _____
(Material, Spec. No., T.S., Size, Number) (Describe or attach sketch)
- Meets Fracture Toughness RT NDT = 60°F max.
14. Design pressure 12485 psi at 650 °F
Hydrostatic or Test Pressure 3106 psi

* If Postweld Heat-Treated

List other internal or external pressures with coincident temperature when applicable.

0156087640

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number _____ Size _____ Location _____

16. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
Prim. Inlet	1	31" I.D.	(Weld)	(SA-508 CL2)	3.00"	Steel	Welded
Prim. Outlet	1	31" I.D.	(End)	(SA-508 CL2)	3.00"	Steel	Welded
Steam Outlet	1	29" I.D.	(Weld)	(SA-508)	1.20"	Steel	Welded
Feedwater	1	14" I.D.	(End)	(CL.2)	0.76"	Steel	Welded

17. Inspection Manholes, No. 4 Size 16" Location (2) Chamber & (2) Upper Shell
 Openings: Handholes, No. _____ Size _____ Location _____
 Instrumentation No. 4 Size 2" Location Stub Barrel Portion of Lower Shell

AVT

18. Supports: Skirt No _____ Lugs _____ Legs _____ Other Attached See Below
 Main support is integral part of tube plate. (Describe) (Where & How)

19. Remarks: This N-1 Form is to be signed off by the authorized code inspector under certificate of shop inspection for everything listed except the hydrostatic test and subsequent inspection. Field inspector must sign off for the latter items on Manufacturer's Partial Data Forms N-2 filed at Westinghouse.

(Brief description of service for which vessel was designed)

CERTIFICATION OF DESIGN

Design information on file at Westinghouse Electric Corporation, Tampa Division, Tampa, FL
 ** Stress analysis report on file at _____
 Design specifications certified by Nuclear Energy Systems Prof. Eng. State _____ Reg. No. 13335-E
 ** Stress analysis report certified by _____ Prof. Eng. State _____ Reg. No. _____

We certify that the statements made in this report are correct and that this nuclear vessel conforms to the rules of construction of the ASME Code, Section III.

Date August 17, 19 76 Signed Westinghouse Elec. Corp. By R.P. Wedler
 (Manufacturer)

Certificate of authorization Expires June 16, 1978 Certificate of Authorization No. N-1154

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY Westinghouse Electric Corporation at Tampa, FL
 I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Pennsylvania and employed by Lumbermans Mutual Cas. Co. of Long Grove, Illinois

have inspected the pressure vessel described in this Manufacturer's Data Report on August 25 19 76, and state that to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with the ASME Code, Section III.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date August 25 19 76
 Inspector's Signature _____ Commission National Board 2592
 National Board, State, Province and No.

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____ of _____

have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as date items _____, not included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief the manufacturer has constructed and assembled this pressure vessel in accordance with the ASME Code, Section III. The described vessel was inspected and subjected to a hydrostatic test and/or Pneumatic Test of psig Primary Side & psig Secondary Side.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date _____ 19 _____
 Inspector's Signature _____ Commission _____
 National Board, State, Province and No.

**Stress Report will be on file before time of Field Hydro.

0875430157

(4)



FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 07/28/94
Name
P.O. Box 1551, Raleigh, N. C. 27602-1551 Sheet 1 of 1
Address
 2. Plant Shearon Harris Nuclear Power Plant Unit 1
Name
P.O. Box 165, New Hill, N. C. 27562-0165 WR&A 94-AEHA1
Address Repair Organization P.O. No., Job No., etc.
 3. Work Performed by Carolina Power & Light Co. Type Code Symbol Stamp N/A
Name
New Hill, N.C. Authorization No. N/A
Address Expiration Date N/A

4. Identification of System Main Steam System (3020)

5. (a) Applicable Construction Code ASME SECT. III 1974 Edition, W 1976 Addenda, _____ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Hydraulic Snubber	Paul Monroe	PD14233-309	N/A	SG-H-309B	1985	Replaced	No
Hydraulic Snubber	Paul Monroe	PD14233-328	N/A	SG-H-309B	1985	Replacement	No

7. Description of Work Replaced hydraulic snubber due to its failing its functional test.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure - N/A
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks See attached manufacturer's certification.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp None

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] Pgr ET Date 7/27, 19 94
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by The Hartford Steam Boiler Inspection and Insurance Company of One State Street, Hartford, Connecticut 06102 have inspected the components described in this Owner's Report during the period 12/02/92 to 05/12/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions NC 1042
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug 1 19 94

PAUL-MUNROE Energy Products

Mail to: P.O. Box 5900
Orange, CA 92667

1701 West Soquoa Avenue
Orange, CA 92658
Telex 69-2387
Telecopier (714) 978-0840
(714) 978-9600

July 29, 1985

SNUBBER REFURBISHMENT
CAROLINA POWER & LIGHT CO.
SHEARON HARRIS NUCLEAR POWER PLANT
C P & L P.O. #H-57278 C/O 2
SNUBBER S/N'S PD14233-303 thru 314, 323 thru 326 & 328
P M DRAWING #PD14233 REV. K
PMH JOB NO. 1T5810N

Paul-Munroe Hydraulics, Inc. hereby certifies the equipment in the above mentioned C.P & L P.O. have been refurbished in accordance with C P & L P.O. H-57278 C/O 2 and Paul-Munroe Energy Products Division Quality Assurance Manual, Rev. A, dated 12-18-84.

PAUL-MUNROE HYDRAULICS, INC.
Energy Products Division

T. M. Cottrill
Quality Assurance Engineer

TM:bg

PMH
8-6-85

86501704

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 07/28/94
Name
P.O. Box 1551, Raleigh, N. C. 27602-1551 Sheet 1 of 1
Address
2. Plant Shearon Harris Nuclear Power Plant Unit 1
Name
P.O. Box 165, New Hill, N. C. 27562-0165 WR&A 94-AELE1
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power & Light, Co. Type Code Symbol Stamp N/A
Name
New Hill, N.C. Authorization No. N/A
Address Expiration Date N/A
4. Identification of System Service Water (4060)
5. (a) Applicable Construction Code ASME SECT. III 1974 Edition, W 1976 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Isolation Valve	Hammel Dahl Div ITT Grinnell	78/4001/0238	69	1SW-240 2SW-B89SA-1	1981	N/A	Yes
3/4" Nuts	Texas Bolt Co.	N/A	N/A	N/A	1989	Replacement	No
Threaded Rod	Mackson, Inc.	N/A	N/A	N/A	1990	Replacement	No

7. Description of Work Replaced 2 studs and associated nuts connecting 12" valve in pipe line outlet of non-nuclear safety containment fan coolers AH-37, 38 and 39.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure _____ psi Test Temp. _____ °F - See remarks on next page.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks See attached Manufacturer's Data Report and certificates of compliance. A local leak rate test was performed on this valve following installation, see EST-212 for Penetration M-91.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the repair or replacement ASME Code, Section XI.

Type Code Symbol Stamp None

Certificate of Authorization No. N/A

Expiration Date N/A

Signed [Signature]

Mgr ET

Date 7/29, 19 94

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by The Hartford Steam Boiler Inspection and Insurance Company of One State Street, Hartford, Connecticut 06102 have inspected the components described in this Owner's Report during the period 12/02/92 to 05/12/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]

Inspector's Signature

Commissions NC 1042

National Board, State, Province, and Endorsements

Date Aug 1, 19 94

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES
As Required by the Provisions of the ASME Code, Section III, Div. 1

1. Manufactured by: SUMMIT PART DIVISION THE GRINNELL VALVE CO INC WARWICK SEASIDE ISLAND
(Name and Address of N Certificate Holder)
2. Manufactured for: CAROLINA POWER AND LIGHT CO., SEAFORD BRIDGE NUC. POWER PLANT #1 NEWBELL
(Name and Address of Purchaser or Owner)
3. Location of Installation: SEAFORD BRIDGE NUCLEAR POWER PLANT #1 WARE COUNTY NC
(Name and Address)
4. Pump or Valve: VALVE Nominal Inlet Size 12 Outer Size 12
(inches) (inches)

	(a) Model No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Ed. No.	(g) Year Built
(1)	V676	78/4001/032	N/A	78/4001/0238	2	69	1981
(2)				Rev. 2			
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. CONTAINMENT FAN COOLER SERV. WATER ON-OFF VALVE
(Brief description of service for which equipment was designed)

6. Design Conditions 225 psi 140 °F or Valve Pressure Class N/A (1)
285 (Temperature)
7. Cold Working Pressure 285 psi at 100°F.
8. Pressure Retaining Pieces.

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings				
	122342 BODY	SA 216 GR. WC3	CUPPER	HT # P8199-2
	122346 DISC	SA 351 GR CF8M	CUPPER	HT # B9486-1
(b) Forgings				

(1) For manually operated valves only.
* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

3 6 9 2 1 7 3

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
(d) Other Parts			

9. Hydrostatic test 450 psi. Check Differential test pressure 247 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1977.
 Addenda: WINTER 77 (Date), Code Case No. _____ Date 11-6-81
 Signed EDWARD DUBET (IN Certificate holder) Colin C. Mackenzie
 Our ASME Certificate of Authorization No. 1057 to use the N symbol expires 12/9/82 (Date)

CERTIFICATION OF DESIGN

Design information on file at EDWARD DUBET
 Stress analysis report (Class F only) on file at _____
 Design specifications certified by (1) DAVID J. GARDNER
 PE State RI Reg. No. 7336
 Stress analysis certified by (1): _____
 PE State _____ Reg. No. _____
 (1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

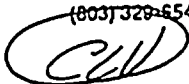
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Rhode Island and employed by EDWARDS VALVE COMPANY of LONG BEACH, CALIFORNIA have inspected the pump, or valve, described in this Data Report on Nov. 6 19 81, and state that to the best of my knowledge and belief, the N Certificate holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.
 By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date Nov. 6 19 81
Robert D. Daur (Inspector) Commissions NB 7283 (Nat'l Bd., State, Prov. and No.)

8 6 9 1 2 2 1 7 4

MACKSON, INCORPORATED

P.O. BOX 12007
5025 OLD YORK ROAD
ROCK HILL, SOUTH CAROLINA 29731

(803) 329-6545



TO: CAROLINA POWER & LIGHT
HARRIS NUCLEAR PLANT
OPS RCVG BLDG SR1134
NEW HILL, N.C. 27562

DATE OF SHIPMENT: 2-1-90

SUBJECT: CERTIFICATE OF COMPLIANCE

MACKSON, INC. CERTIFIES THAT THE MATERIALS FURNISHED TO YOU
ON YOUR PURCHASE ORDER. 671304CH WAS PROCESSED IN
ACCORDANCE WITH MACKSON INCORPORATED QUALITY ASSURANCE MANUAL
DATED JANUARY 25, 1988, REVISION 3.

DESCRIPTION OF ITEMS

ITEM:	QUANTITY:
1.) 7/8-9 x 6' ALL THREAD ROD	180 ft total
90ft- HEAT#699724 TRACE : GYQ	6x15 = 90 OK
90ft- HEAT#687347 TRACE : GXE	

THIS MATERIAL IS IN ACCORDANCE WITH C P & L P.O.671304CH
AND SPEC. 55 REV.8 AND SECTION III CLASS 2, 1974
EDITION THRU 1976 WINTER ADDENDA.


QUALITY ASSURANCE MANAGER

2-1-90

DATE

TEXAS BOLT COMPANY

Manufacturers of Industrial Fasteners

3233 WEST 11th ST. • P.O. BOX 1211

HOUSTON, TEXAS 77251-1211

PHONE: 869-7111
AREA CODE 713

CABLE: "TEXBOLT"

December 07, 1989

CAROLINA POWER & LIGHT COMPANY
C/O ACCOUNTS PAYABLE UNIT
P.O. BOX 1551
RALEIGH, NC 27602

YOUR ORDER NO: 666649AS
OUR ORDER NO: 233077

Gentlemen:

We hereby certify that the Nuts on your above order were produced, inspected, and/or tested in accordance with specifications:

ASME SA194 GRADE 2H

These products meet all applicable requirements.

"ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE" "10 CFR 21 APPLIES"
"ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV. 7, DATED 4-26-83, WHICH WAS QUALIFIED, SURVEYED, AND/OR AUDITED BY CAROLINA POWER & LIGHT CO. 2-8-83"
ALL MATERIAL IN ACCORDANCE WITH ASME SECTION III, CLASS 2, 1974 EDITION THRU WINTER 1976 ADDENDA.

Very truly yours,

Sharon Charanza
SHARON CHARANZA
NDE LEVEL III INSPECTOR

SC /DJ

State of Texas
County of Harris

Subscribed and sworn to before me this 8 day of December, 1989.



Catherine I. Parker
Notary public in and for Harris County, Texas
My commission expires May 28, 1992

